

# UXB International, Inc.

Ordnance and Explosive  
Waste Services

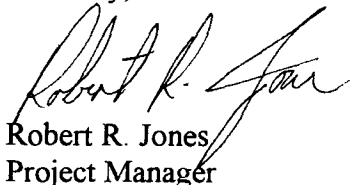
October 5, 1995

Commander - Tooele Army Depot  
Att: SIOTE-ARE- EP (Mr. Ron Canale)  
BLDG 113  
Tooele Army Depot, UT 84074-5033

Dear Sirs:

As requested, enclosed please find 4 copies of the Final Report for Delivery Order 019 - Tooele, UT. The additional distribution of this report is as noted below.

Sincerely,



Robert R. Jones  
Project Manager

5 copies to: Mr. Ron Roberts  
US Army Corp of Engineers  
CEHND-OE-EM  
4820 University Square  
Huntsville, AL 35816-1822

3 copies to: US Army Corp. of Engineers  
Sacramento District  
Att: CESPK-MD-MM  
1325 "J" Street  
Sacramento, CA 95814-2922

2 copies to: Commander  
548th ORD DET (EODCT)  
Ft. Lewis, WA 98433

**FINAL REPORT**  
**FOR**  
**TOOELE ARMY DEPOT**  
**TOOELE, UTAH**

**UNEXPLODED ORDNANCE (UXO) REMOVAL ACTION**  
**PHASE II**

**DACA87-93-D-0002**  
**DELIVERY ORDER 0019**

**PREPARED FOR:**  
**U.S. ARMY CORPS OF ENGINEERS**  
**HUNTSVILLE, ALABAMA**

*The view, opinions, and/or findings contained in the report are those of the author(s) and should not be constructed as an official Department of the Army position, policy, or decision, unless so designated by other documentation.*

**PREPARED BY:**

**UXB INTERNATIONAL INC.**  
**14800 CONFERENCE CENTER DRIVE, SUITE 100**  
**CHANTILLY, VA 22021-3806**

**NOVEMBER 1994**

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## ACRONYMS/ABBREVIATIONS

AP	Armor Piercing
APC-T	Armor Piercing, Capped, with Tracer
AR	Army Regulation
ARL	Army Research Laboratory
BD	Base detonating
BLU	Bomb, Live Unit
BRAC	Base Realignment and Closure
CEHND	U.S. Army Corps of Engineers, Huntsville Division
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulation
CO	Contracting Officer
DA	Department of Army
DDESB	Department of Defense Explosive Safety Board
DERP	Defense Environmental Restoration Program
DO	Delivery Order
EOD	Explosive Ordnance Disposal
EOR	Explosive Ordnance Reconnaissance
EPA	U.S. Environmental Protection Agency
FAA	Federal Aviation Administration
FUDS	Formerly Used Defense Site
GFE	Government Furnished Equipment
GPS	Global Positioning System
HASP	Health and Safety Plan
HE	High Explosive
HEP	High Explosive, Plastic
HE-T	High Explosive, with Tracer
HEAT	High Explosive, Anti-Tank
HSO	Health and Safety Officer
IAW	In Accordance With
IR	Installation Restoration
lb	Pound

mm	Millimeter or Millimeters
Mod	Model
MT	Mechanical time
MTSQ	Mechanical time, super quick
NAD	North American Datum
NAVD	North American Vertical Datum
NCP	National Contingency Plan
OB/OD	Open Burn/Open Detonation
OEW	Ordnance and Explosive Waste
PD	Point detonating
QA	Quality Assurance
QC	Quality Control
SAP	Semi armor piercing
SARA	Superfund Amendments and Reauthorization Acts
SARM	Standard Analytical Reference Material
SHA	Safe holding area
SOP	Standard Operating Procedures
SOW	Scope of Work
TEAD	Tooele Army Depot
USACE	U.S. Army Corps of Engineers
UXB	UXB International, Incorporated
UXO	Unexploded Ordnance
VT	Variable time

## **ANNEX A**

### **OEW Recovered and Disposition**

## **1.0 INTRODUCTION**

UXB International Inc., (UXB) of Chantilly, Virginia was under contract (DACA87-93-D-0002) to the U.S. Army Corps of Engineers, Huntsville Division (CEHND) to perform an unexploded ordnance (UXO) removal action, phase II, at Tooele Army Depot (TEAD) [Delivery Order (DO) 0019 with associated Scope of Work (**Annex K**) and modifications].

This project pertains to the areas cleared of OEW and scrap located outside the southern and western installation boundaries (see Section 2.3 of this report) and adjacent to areas previously cleared by another contractor. Those areas that were previously cleared are Areas A, B, C, and D (discussed in Section 1.1.2 of the Work Plan).

### **1.1 Site Summary**

The information reflected in the following paragraphs summarize general information concerning the TEAD site (see Figures 1 - 3 on pages 2 - 4).

#### **1.1.1 Description**

TEAD-North (TEAD-N) is located in northwest Utah, approximately 35 miles west of Salt Lake City. The installation contains approximately 24,732 acres.

TEAD-South (TEAD-S) is located in northwest Utah approximately 50 miles southwest of Salt Lake City.

The work sites are comprised of generally low rolling hills without trees. The vegetation is made up of mostly desert grasses and patches of sagebrush. The sites have been basically unused, or are used infrequently, for the grazing of livestock. Some of the land has been plowed for agricultural use. The distances to inhabited locations or structures is several miles. The population density is low and access to the site is limited.

#### **1.1.2 History**

TEAD was established in 1942 and has been one of the major ammunition storage and equipment maintenance centers for the U.S. Army in the ensuing years. The current mission of TEAD-N is to receive, store, issue, maintain, and dispose of munitions. The current mission of TEAD-S is to receive, store, and dispose of chemical munitions.

The area within the southwest boundary fence consists of an Open Burn/Open Detonation (OB/OD) area and a former firing range. The OB/OD area has been used since the 1940s for various demilitarization activities, including the destruction of munitions and propellant burning. These activities occurred at sites within the installation boundaries.

# UTAH

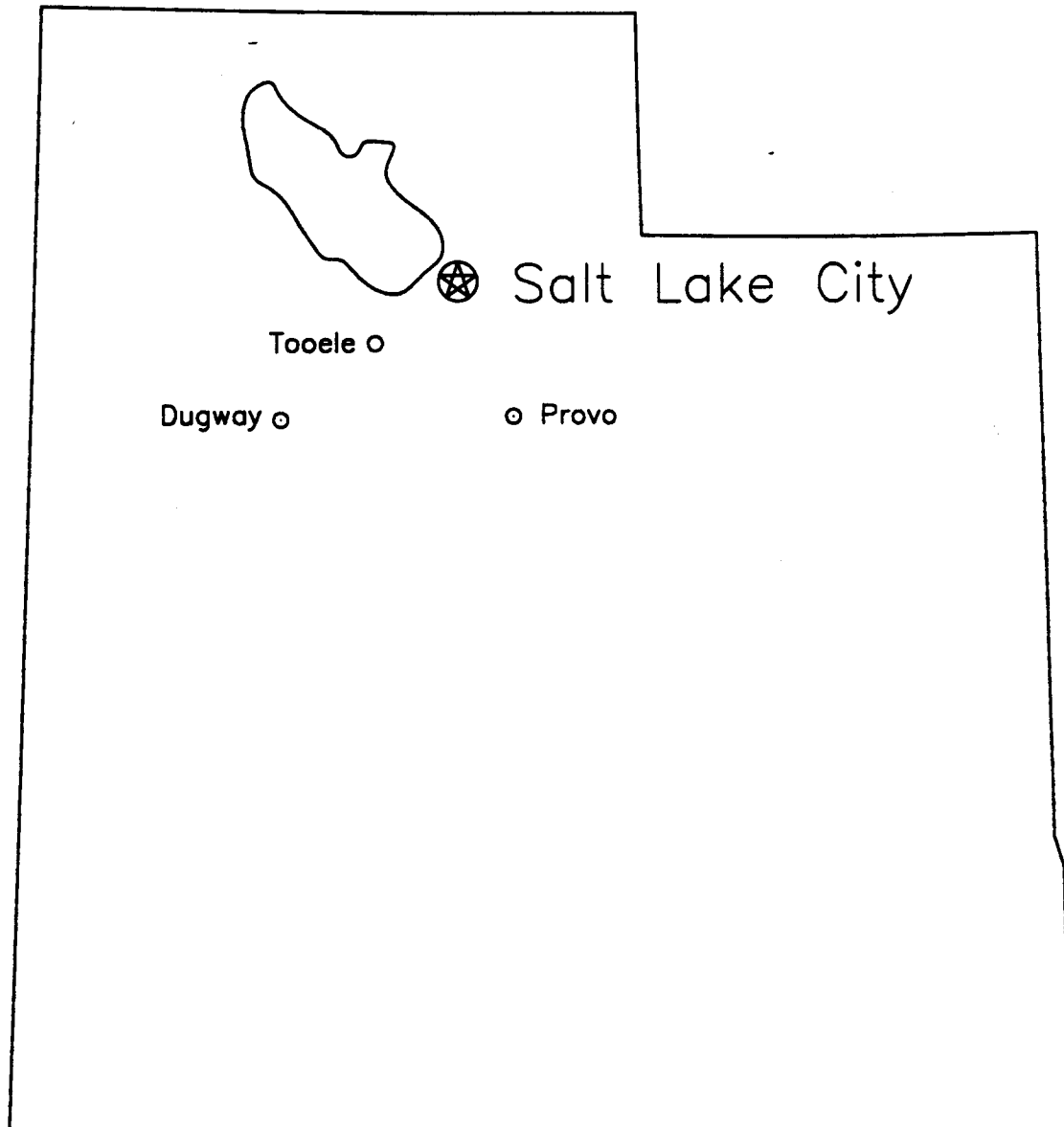


FIGURE 1  
2

# TOOELE ARMY DEPOT NORTH AND SOUTH

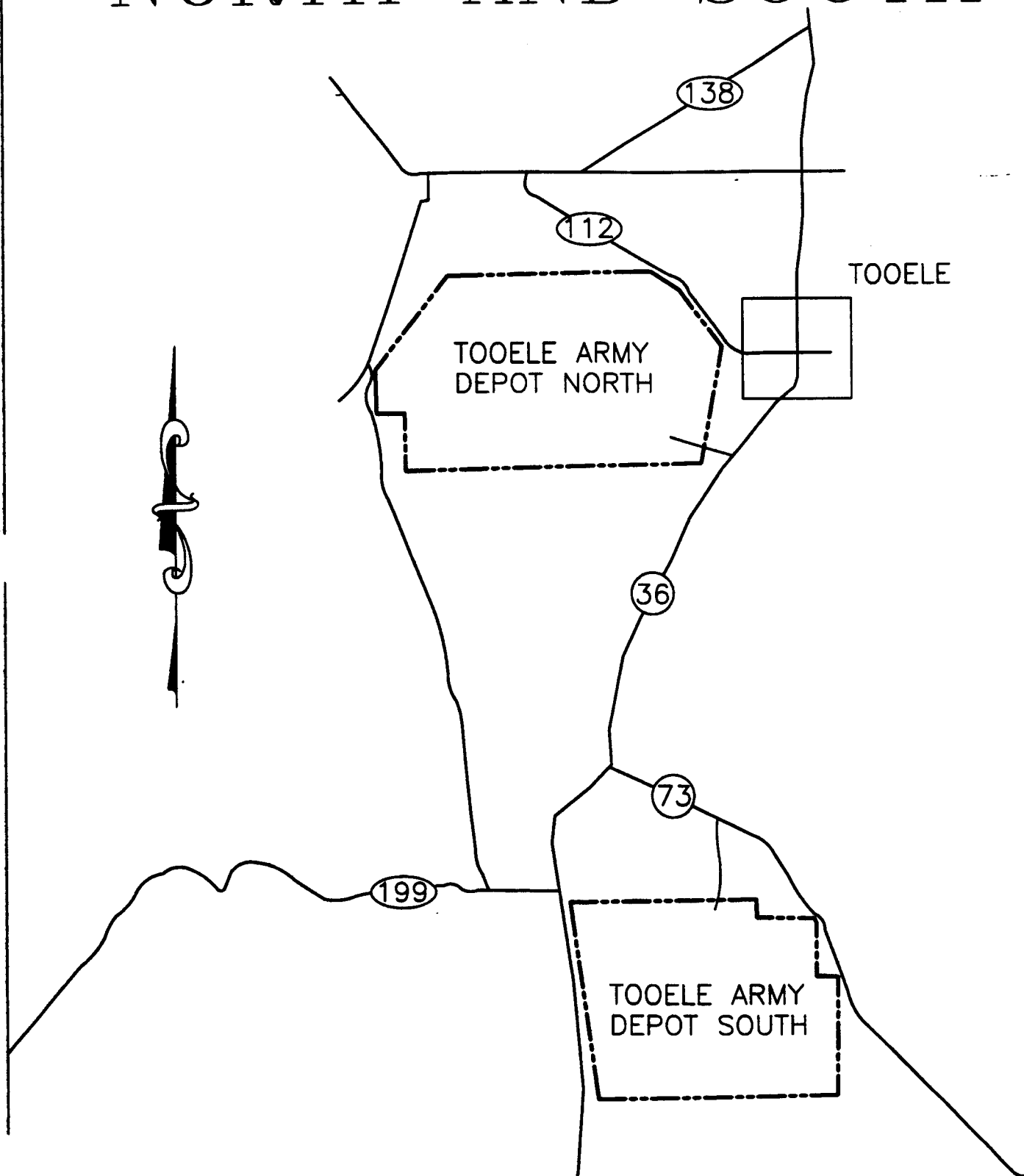
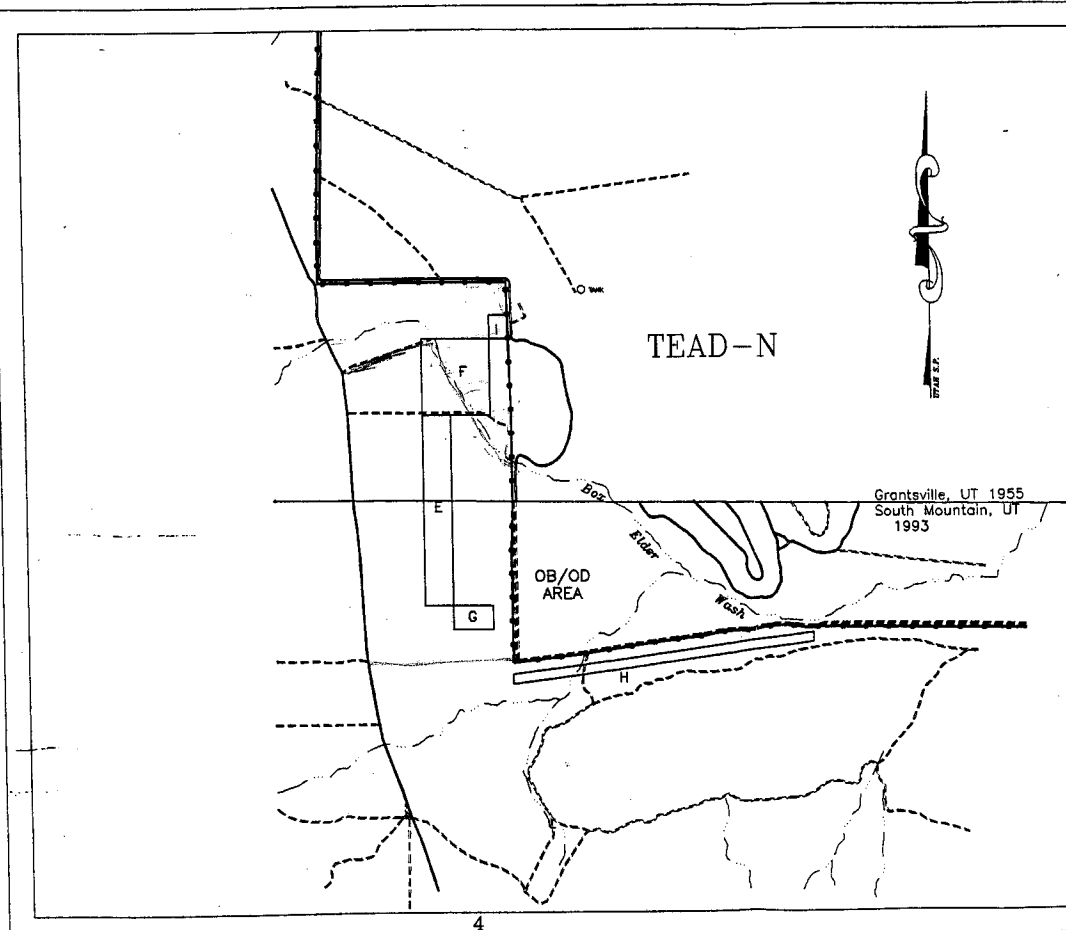


FIGURE 2



## WORK SITES AT TEAD-N

AREA	ACRES
E	55.1
F	53.3
G	9.8
H	29.4
I	4.6

*There are no inhabited buildings within  
4500 feet of the identified work sites.*

### NOTE:

This map was digitized from two USGS 7.5  
minute quadrangles: Grantsville, UT 1955 &  
South Mountain, UT 1993. The sheet border  
is indicated on the map.

UXB International, Inc.  
14800 Conference Center Drive  
Suite 100  
Chantilly, Virginia 22021-3806  
(703) 803-8904

## TOOELE ARMY DEPOT NORTH DELIVERY ORDER 019



### FIGURE 3

SCALE: 1"=2000'

DATE: 10/18/94

REVISED:

DRAWN BY: SJH

CHECKED BY: RB

SHEET 1 OF 1

File Name: TOELSAFE

The following areas had been cleared to a depth of three feet during previous projects:

- Area A Area A, which is 250 feet wide, extends 6400 feet to the east of the southwest corner of the installation.
- Area B Area B, which is 400 feet wide, extends 6800 feet to the north and 250 feet to the south of the southwest corner of the installation.
- Area C Area C, which begins 1200 feet to the north of the southwest corner of TEAD-N, is 250 feet wide and proceeds 4000 feet to the north.
- Area D Area D, which begins 1200 feet to the north of the southwest corner of TEAD-N, is 600 feet wide and proceeds 4000 feet to the north.

## **1.2 Project Objectives**

UXB met the objectives of the work plan: i.e., to safely locate, map, identify, and dispose of all OEW found on the surface of the project site.

Procedures used to accomplish the tasks listed in the Delivery Order Statement of Work were presented in the approved Work Plan: UXO Removal Action, Phase II, Tooele Army Depot (TEAD), Utah.

## **1.3 Reasons for Clean-up**

As a result of Department of Defense activities, Ordnance and Explosive Waste (OEW) existed on private property. The Scope of Work (SOW) (DACA87-93-D-0002 Mod. 001901) directed that Areas E through I on TEAD-N and a 50-acre area on TEAD-S be cleared of OEW to a depth of 4 feet. This required work fell under the Defense Environmental Restoration Program (DERP) - Installation Restoration (IR).

## **1.4 OEW Hazards**

Ordnance and Explosive Waste (OEW) is a safety hazard and constitutes an imminent and substantial endangerment to the local populace and site personnel. During this action, UXB removed or destroyed on-site all OEW encountered. This action was performed in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), Section 104, and the National Contingency Plan, Sections 300.120(c) and 300.400(e). In accordance with the above, no Federal, State, or Local permits were required, nor were obtained for on-site disposal of OEW. The provisions of 29 CFR 1910.120 applied for this site. During site work, UXO specialists were alert to the possibility of encountering OEW of all types.

A Site Survey was conducted by members of CEHND. The site was found to be contaminated



with OEW and non-OEW related scrap. The following items were found during the site survey and during previous clearance of adjacent areas: bomb components; 20mm, 37mm, 57mm, and 90mm HE projectiles; a large number of fuzes and adapter boosters; and a 155mm base ejection projectile.

## **1.5 Technical Instructions**

It was the Government's intent that UXB's Senior UXO Supervisor, in consultation with CEHND's Safety Specialist, classify all surface/subsurface items identified as OEW as either safe-to-move or unsafe-to-move. OEW determined to be safe-to-move was transported to a Safe Holding Area (SHA) for later destruction. SHAs were located, for the duration of the project, inside of the TEAD boundary fence near an access gate installed by the previous contractor. Not later than 1430 hours daily, UXB notified TEAD Ammunition Demilitarization personnel (Mr. Ron Snyder or Mr. Wayne Lowery, 833-2621) of the need to transfer the safe-to-move OEW. No OEW was blown in place on this delivery order.

## **1.6 Other Contract Directions**

The project did not require an on-site full time contractor project manager as identified in Section C, subsection 3.1.1, of the basic contract. Due to the inherent risk of the operation, UXB was limited to a 40-hour work week consisting of four 10-hour days. UXB personnel did not perform OEW-related tasks for more than 10 hours a day. The work day was from 0700 to 1730.

## **2.0 DISCUSSION**

### **2.1 Method of Work Accomplishment**

Procedures used to accomplish the tasks listed in the Delivery Order Statement of Work were presented in the approved Work Plan and were IAW the SOW provided by CEHND. During this removal action, UXB destroyed on-site all OEW encountered that was too dangerous to move, and transported all other OEW to the temporary SHA to await transfer to TEAD personnel and ultimate disposal by detonation. UXB provided all the necessary personnel to perform a surface and subsurface OEW clearance of the specified sites. This clearance action included all OEW and OEW related scrap.

### **2.2 Staging Areas**

UXB used three rooms in Building S115 (TEAD-N) as office and storage space.

### **2.3 Work Areas**

OEW clearance operations were conducted within the areas described in the SOW (**Annex K**).

Figure 3 shows the project's worksites on TEAD-N. The following areas had never been cleared; UXB expected to encounter all types of OEW during the conduct of the required work:

#### **2.3.1 Area E**

Area E is west of, and adjacent to, Area D. Area E begins 1,200 feet to the north of the southwest corner of TEAD-N, is 600 feet wide and proceeds 4,000 feet to the north. OEW was cleared to a depth of 3 feet.

Clearance of this area began in the northeast corner and proceeded south and west.

#### **2.3.2 Area F**

Area F, which is adjacent to the north end of Areas C, D, and E and adjacent to the west boundary of Area B, begins 5,200 feet to the north of the southwest corner of TEAD-N, is 1,450 feet wide, and proceeds 1,600 feet to the north. OEW was cleared to a depth of 3 feet.

Clearance of this area began in the southeast corner and will proceed north and west.

#### **2.3.3 Area G**

Area G, which is adjacent to the south end of Areas C and D, and to the west boundary of Area B, begins 1,200 feet to the north of the southwest corner of TEAD-N, is 850 feet wide, and proceeds 500 feet to the south. OEW was cleared to a depth of 3 feet.

Clearance of this area began in the northeast corner and proceeded south and west.

#### **2.3.4 Area H**

Area H, which is adjacent to the south end of Area A, begins 250 feet south of the southwest corner of TEAD-N, is 200 feet wide and proceeds 6,400 feet to the east of the southwest corner of the installation. OEW was cleared to a depth of 3 feet.

Clearance of this area began in the northwest corner and proceeded east and south.

#### **2.3.5 Area I**

Area I, which is adjacent to the north end of Area B, begins 6,800 feet north of the southwest corner of TEAD-N, is 400 feet wide and proceeds 500 feet to the north. OEW was cleared to a depth of 3 feet.

Clearance of this area began in the southeast corner and proceeded north and west.

### **2.3.6 TEAD-S**

At TEAD-S, no grids were cleared as 80% of the project's funds were expended to complete 40% of the work on TEAD-N.

### **2.3.7 Area West of Grid Areas E and F**

At the request of CEHND, a survey was performed by UXB of the area west of Grid Areas E and F (See Figure 4). The area extended 2000' west of the western edges of areas E and F.

### **2.3.8 Area Southeast of Grid Area H**

At the request of CEHND, a survey was performed by UXB of the area southeast of Grid Area H (See Figure 4). The area extended 200' southeast of the southeastern edge of area H.

## **2.4 Site Security**

Access to TEAD was controlled by the Federal Guard Service. Public access was restricted to persons having official business on post and all visitors must pass through visitor control. Work site security was the responsibility of all personnel working on site. UXB employees were alert to unauthorized personnel entering the work site and directed those personnel to the UXB operations center. All visitors were briefed on the site conditions and provided an escort when entering an area where UXB employees were conducting operations.

## **2.5 OEW Search Methodology**

OEW location activities involved basic EOD clearance methods for investigating the site. These methods were:

Visual Survey - UXB personnel visually scanned the surface terrain using Explosive Ordnance Reconnaissance (EOR) methods to locate ordnance on the surface or evidence suggesting the presence of subsurface ordnance. In areas of dense metal contamination, visual survey complemented by a surface metal detector search was performed. In areas where visual search techniques were obstructed by vegetation, metal detectors were used to locate metal contacts on the surface.

Geophysical Survey - Using magnetometers, UXB personnel conducted non-intrusive surface and subsurface examinations of the area, marking the location of ferrous contacts encountered, and recording positions for excavation characterization and follow-on disposition. Geophysical survey identifies the locations of subsurface ferrous contacts from the surface.

The visual survey was normally conducted simultaneously with the geophysical survey.

## **2.6 General OEW Search Procedures**

Grid and boundary surveys were conducted to establish the boundaries of the site, the search lanes, and the sample grids. Grids and lanes were identified for reference purposes. Size and layout of the grids varied due to the terrain encountered within the sites. (See Figures 4A and 4B.) Search lanes did not exceed five feet in width. Live OEW contacts were plotted using an X-Y coordinate system measured along the base line of the grids.

Colored flagging material (or paint) attached (or sprayed) to wooden stakes was used to visually establish the project parameters. UXB executed a systematic search and clearance of OEW within these limits. Search areas were identified through the use of drawings, maps and a site walk. All non-UXO personnel assigned to tasks within the OEW investigation areas were briefed on the site parameters and cautioned not to travel outside the established boundaries without a UXO escort.

OEW operations were performed after, or in conjunction with, the surface investigation. In areas where vegetation might influence investigation effectiveness, OEW operations were not performed until the vegetation was thinned or cleared. This enabled optimum use of OEW investigation methods. Search control was established by using a grid system. Pin flags were used to mark the search area. The pins were moved as an investigation sweep lane was completed and re-positioned every five feet until each row was completed. Ferrous, non-ferrous, and other items encountered on the surface were evaluated by a UXO Specialist to determine identity, potential hazard, and continued action.

Visual reconnaissance during remediation was used to conduct a non-intrusive technical analysis of the surface within the boundaries. Visual examination was conducted during all OEW surveys to locate, characterize and evaluate OEW and potential ordnance residues on the site. The detection and identification of OEW was accomplished in accordance with Chapter 13, TM 9-1300-214 "Military Explosives". Using EOR procedures, UXB's UXO Specialists determined the location, hazard, quantity, and disposal actions required for OEW or ordnance residues encountered.

Visual searching relied on a systematic progressive search pattern using evenly distributed search intervals not exceeding the team members' field of view. During the visual search, all "live" OEW contamination observed were marked in place and the positions recorded for follow-on disposal actions.


OEW sites at TEAD were not suspected of containing Chemical Warfare Materials (CWM).

## **2.7 Search Guidelines**

Surface and subsurface OEW investigations required a detailed search of designated areas. This was accomplished by using a UXO team equipped with electronic detection equipment and



OB/OD  
AREA



**Scale: 1"=2000'**

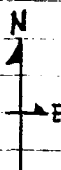
**PAGE 10**

AREA E

240	161	160	81	80	1
239	162	159	82	79	2
238	163	158	83	78	3
237	164	157	84	77	4
236	165	156	85	76	5
235	166	155	86	75	6
234	167	154	87	74	7
233	168	153	88	73	8
232	169	152	89	72	9
231	170	151	90	71	10
230	171	150	91	70	11
229	172	149	92	69	12
228	173	148	93	68	13
227	174	147	94	67	14
226	175	146	95	66	15
225	176	145	96	65	16
224	177	144	97	64	17
223	178	143	98	63	18
222	179	142	99	62	19
221	180	141	100	61	20
220	181	140	101	60	21
219	182	139	102	59	22
218	183	138	103	58	23
217	184	137	104	57	24
216	185	136	105	56	25
215	186	135	106	55	26
214	187	134	107	54	27
213	188	133	108	53	28
212	189	132	109	52	29
211	190	131	110	51	30
210	191	130	111	50	31
209	192	129	112	49	32
208	193	128	113	48	33
207	194	127	114	47	34
206	195	126	115	46	35
205	196	125	116	45	36
204	197	124	117	44	37
203	198	123	118	43	38
202	199	122	119	42	39
201	200	121	120	41	40

240	209	208	177	176	145	144	112	112	81	80	49	48	17	16
239	210	207	178	175	146	143	111	111	82	79	50	47	18	15
238	211	206	179	174	147	142	110	110	83	78	51	46	19	14
237	212	205	180	173	148	141	109	109	84	77	52	45	20	13
236	213	204	181	172	149	140	108	108	85	76	53	44	21	12
235	214	203	182	171	150	139	107	107	86	75	54	43	22	11
234	215	202	183	170	151	138	106	106	87	74	55	42	23	10
233	216	201	184	169	152	137	105	105	88	73	56	41	24	9
232	217	200	185	168	153	136	104	104	89	72	57	40	25	8
231	218	199	186	167	154	135	103	103	90	71	58	39	26	7
230	219	198	187	166	155	134	102	102	91	70	59	38	27	6
229	220	197	188	165	156	133	101	101	92	69	60	37	28	5
228	221	196	189	164	157	132	100	100	93	68	61	36	29	4
227	222	195	190	163	158	131	99	99	94	67	62	35	30	3
226	223	194	191	162	159	130	98	98	95	66	63	34	31	2
225	224	193	192	161	160	129	97	97	96	65	64	33	32	1

AREA F



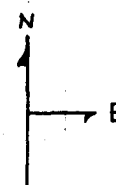
41	40	31	30	21	20	11	10	1
42	39	32	29	22	19	12	9	2
43	38	33	28	23	18	13	8	3
44	37	34	27	24	17	14	7	4
45	36	35	26	25	16	15	6	5

AREA G

16	15	6	5
17	14	7	4
18	13	8	3
19	12	9	2
20	11	10	1

AREA I

Figure 4A



1	4	5	8	9	12	13	16	17	20	21	24	25	28	29	31	34	35	38	39	42	43	46	47	50	51	54	55	58	59	62	63
2	3	6	7	10	11	14	15	18	19	22	23	26	27	30	32	33	36	37	40	41	44	45	48	49	52	53	56	57	60	61	64

66	67	70	71	74	75	78	79	82	83	86	87	90	91	94	95	98	99	102	103	106	107	110	111	114	115	118	119	122	123	126	127
65	68	69	72	73	76	77	80	81	84	85	88	89	92	93	96	97	100	101	104	105	108	109	112	113	116	117	120	121	124	125	128

AREA H

Figure 4B

following the guidelines:

- A test grid was established to monitor magnetometer instrument performance. This test grid consisted of an inert 75mm projectile planted to a depth of 4 feet. If a magnetometer did not meet the standard indication during the daily check, it was calibrated/repaired or replaced.
- A field operations representative for the Army Corps of Engineers assisted the UXB Senior UXO Supervisor in locating the correct survey locations to ensure that the surveys were conducted in the correct locations.
- The boundaries of each grid were established through survey. Each grid was subdivided into 5-foot wide search lanes to assist in the sweeping process. Specialists assembled in a line formation and advanced at a slow, continuous pace. They visually inspected the surface for OEW and evidence of ordnance compounds in soils, such as stains. For subsurface sampling, personnel would simultaneously search for subsurface anomalies with magnetometers (the Schonstedt GA-52B/72CV). This process was continued until the assigned search lane was completed. Once a lane was completed, the team would move to the next search lane or section and continue the search until all lanes were completed.
- The teams marked each suspected surface and subsurface contact with a colored pin-flag for excavation and identification.
- Excavations were performed only by qualified UXO personnel.
- If the subsurface contact proved to be non-OEW, it was removed and the hole rechecked with a magnetometer. If the hole was "clean", it was refilled and tamped. If the contact was an OEW, the Senior UXO Supervisor and the CEHND Safety Specialist would classify it as either safe to move or unsafe to move (see Section 1.5).
- OEW determined safe-to-move was transported to a Safe Holding Area (SHA) for later destruction. No unsafe-to-move OEW was discovered.
- OEW to be transferred to TEAD was assembled at the access gate and accounted for on DA Form 4508. OEW was identified by M number, if possible. As a minimum, OEW was identified by type.
- The Demilitarization Branch (Mr. Snyder or Mr. Lowery) was notified by phone and provided the number and type of OEW to be picked up.
- Each contact was evaluated by a UXO Specialist to determine if the contact was ordnance or scrap. Soil was manually removed until identification procedures could



be conducted. Hand excavation to a depth of 4 feet was accomplished to identify or confirm the presence of OEW. If the anomaly could not be uncovered within 1 foot of the surface, the UXO Specialist would conspicuously mark the site with crossed stakes and flagging material, and divert the access path around the location. The on-site CEHND Safety Specialist would determine if deeper excavation was required.

- Debris received a 100% inspection and was segregated as OEW, OEW related, or non-OEW scrap. All metallic debris were removed from the grid. Non-OEW related scrap was stockpiled nearby in containers provided by TEAD for turn-in to the TEAD DRMO. Scrap was transported to DRMO by TEAD personnel. OEW related scrap, inspected and determined to be free of explosives, was placed in the TEAD scrap containers.
- Teams performed EOR procedures and assessment of all suspect OEW to determine condition and potential hazards.
- All access and excavation holes were backfilled.
- Intrusive work ceased at 1600, unless otherwise directed by CEHND. This allowed for the transfer and transportation of OEW.
- Non-intrusive activities by personnel not involved in the transfer of OEW or demolitions continued until the end of the work day.

## **2.8 Vegetation Removal and Reseeding**

UXB provided all required personnel and equipment to mow grass/weeds and perform selected brush removal as specified by the CEHND Safety Representative.

Upon conclusion of the work in each area listed in Section 2.3, UXB restored locations that were disturbed by operations. Excavated or trafficked areas were returned to natural grade and indigenous vegetation re-established by seeding or planting sprigs. Reseeding operations were prescribed by the TEAD environmental personnel and the CO.

## **2.9 OEW Operations**

### **2.9.1 OEW Recovery**

Operations were conducted in a manner which exposed the minimum number of people to the smallest quantity of explosives for the shortest period of time consistent with the operation being conducted. Tasks not necessary to the operation were prohibited within the immediate area during intrusive operations. Personnel not needed by the operation were prohibited from remaining on site. This did not prohibit official visits by safety/quality control or inspection

personnel. OEW recovered from the surface sweeps and excavation operations were inspected prior to movement by the Senior UXO Supervisor and CEHND Safety Specialist to determine whether the items were hazardous. No items were determined to be too hazardous to move. Non-hazardous items identified as OEW scrap were logged and segregated for turn-in. Hazardous OEW was logged and its location marked. It was then transported to the storage area, added to the OEW storage inventories, and secured to await disposal.

A recapitulation of recovered OEW is at **Annex A**.

### **2.9.2 OEW Removal**

During subsurface sampling operations, UXB excavated to a depth of 4 feet (in accordance with the Department of Defense Explosive Safety Board [DDESB] guidance for agricultural land use) to determine the identity of a magnetic anomaly. The on-site CEHND Safety Specialist would approve deeper excavation if he determined it was necessary for future land use.

### **2.9.3 OEW Transport**

Unexploded ordnance that was determined to be safe to transport, and material containing explosive residue, were carefully removed from the excavation after the item was positively identified and the condition of the fuze was determined. The item was carefully placed in a container that was prepared by placing a layer of sand on the bottom of the container to restrict movement and provide shock mitigation.

OEW were packed for transport using locally manufactured containers that were custom designed to immobilize each OEW item during transport.

### **2.9.4 OEW Temporary Storage**

Recovered OEW were inventoried and stored in the temporary SHAs to await transfer to TEAD personnel and ultimate disposal by detonation.

### **2.9.5 OEW Disposal**

UXB disposed of 428 live items ranging from fuzes to 20-pound fragmentation bombs. **Annex A** provides a detailed listing of OEW items found on the site. Unless approved by the CEHND Safety Specialist, all recovered OEW was disposed of on a daily basis. All debris received a 100% inspection and was segregated as OEW, OEW related, or non-OEW scrap. OEW related scrap was inspected and determined to be free of explosives by the Senior UXO Supervisor and vented, before it is turned over to TEAD DRMO as scrap.

## **2.9.6 Demolition Operations**

UXB did not conduct any demolition operations in support of this project.

## **2.10 Exclusion Areas**

Exclusion areas were established at each work site since the work sites were too large for a single restricted area to be practical. The areas were identified with signs to warn unauthorized personnel to stay clear of the site.

The exclusion area encompassed the area of activity with controlled access and egress. Only UXB personnel and the CEHND Safety Specialist were authorized access to the exclusion area during OEW and demolition operations. The Site Safety Officer was responsible for establishing and maintaining the integrity of the exclusion area.

A 50 meter separation was maintained between teams and other non-UXO personnel.

All persons entering and exiting the exclusion areas did so using established lanes.

## **2.11 Record and Submit Video Tape (Annex J)**

UXB personnel used a video camera with standard 1/2 inch color tape to record, with narration, all the tasks performed in support of this operation. The recording depicts the site prior to conducting the operation, each phase of the operation as it was being conducted, and a final overview of the site at the completion of the project.

## **2.12 Equipment**

### **2.12.1 Magnetic Locators**

Schonstedt GA-52Cx/72CV Magnetic Locators were used for all subsurface geophysical surveys and QC inspections.

Schonstedt Magnetic Locator - Schonstedt Heliflux® Magnetic Locators (Models GA-52Cx and GA-72CV) are used for detecting subsurface ferrous metal items. The technology is based upon fluxgate sensors organized in a gradiometer format. The Schonstedt locator is a hand-held unit that employs two (2) fluxgate magnetometers that are aligned and mounted a fixed distance apart to detect changes in the earth's ambient magnetic field caused by ferrous metal (the sensors are fixed and aligned to eliminate a response to the earth's ambient field). The Magnetic Locators respond with an audio output and a meter deflection (GA-72CV) when either one of the two sensors is exposed to a disturbance of the earth's ambient field associated with a ferrous target and/or the presence of a permanent field associated with a ferrous target (in most cases, it will be a combination of both circumstances).

The Schonstedt GA-72CV is capable of ordnance location to the following depths:

ITEM	DEPTH (feet)
81 mm mortar	1
175 mm Projectile	5
MK81 bomb	9

SOURCE: GA-72CV Instruction Manual, August, 1992

### **3.0 DOCUMENTATION**

All written, verbal, and telephonic correspondence was documented and routed to the Senior UXO Supervisor. Communications from the CEHND representative, or designee, were addressed to the Project Manager. Incoming correspondence was annotated with the date received. Telephone communications to project personnel were recorded on the Telephone Correspondence Record. The Project Manager maintained a complete project working file in his office. UXB was available to assist the government and CEHND in developing and executing their public affairs programs.

#### **3.1 Record Keeping**

The Senior UXO Supervisor maintained a daily journal of operations that includes: the identification of each plot; the time required to mark each plot; a map overlay showing each lane; the identification/location/depth of each OEW and/or non-OEW item located; the time required to clear each plot, noting the vegetation and terrain; daily temperature ranges and climactic conditions; other pertinent data as determined by the COR; and any problems encountered. The Senior UXO Supervisor also took photographs of OEW encountered.

An exact accounting of all OEW items/components encountered was maintained. This included the amounts of OEW, the identification and condition, depth located, disposition and location/mapping. This accounting includes all demolition materials utilized to detonate OEW on-site.

A daily journal of all activities associated with this project was opened upon first arrival for field operations and closed after UXB demobilization at the project site. Activities endemic to a specific work area were recorded on a daily basis and indexed.

Field activity logbooks were maintained for each field activity performed, one logbook was maintained at each site where operations were being conducted. The Daily Activity Logs contain the following data:

- Date
- Daily weather conditions
- Tailgate Safety Meeting
- Start and stop times;
- Personnel assigned and job classification
- Work stoppages
- Equipment used and number of hours in use
- Injuries to personnel
- Damage to equipment
- Official communication, written or verbal
- Quantity and type (by function, at a minimum) of OEW encountered
- Signature of supervisor indicating concurrence with the information recorded

### **3.2 Reporting Requirements**

On the Monday following each work week, UXB faxed to the CEHND Project Manager the production data for the previous week. This data was presented in both tabular and graphic forms. The graphic presentation showed total daily target productions, based on the rate of 1.1 acres/UXO clearing team/day versus actual daily productions. The tabular presentation showed daily productions for individual UXO clearing teams and the total production.

## **4.0 TESTS**

### **4.1 Quality Control**

UXB's Quality Control program (**Annex E** of the Work Plan) was designed to ensure that tasks or subtasks were assigned an inspection schedule consistent with the objectives of the activity and overall scope of work.

The results of both the government's Quality Assurance tests and UXB's Quality Control checks are shown in **Annex C**.

## **5.0 ORGANIZATION**

### **5.1 Organizational Structure**

UXB utilized the following organizational structure to provide optimum support in performance of the Statement of Work objectives. Personnel were selected based on the qualifications outlined in the basic contract and their individual qualifications.

### **5.2 Responsibilities of Personnel**

#### **5.2.1 Project Manager**

Reviewed details of the delivery order and formulated plans to accomplish the tasks. Responsible for making available the necessary resources consisting of personnel, facilities, and equipment to support the provisions of each delivery order. Provided direction and implements controls to assure the requirements outlined in the delivery order were accomplished in the most efficient and cost effective manner, while achieving the contractual costs and schedule targets. Coordinated with CEHND for purposes of scoping, negotiating, or modifying delivery order costs and schedules. Developed site specific work, safety, health and emergency work plans. Assured project safety, health and quality assurance standards were met and maintained throughout the period of performance. Identified personnel that were employed to accomplish the work and assured that fully qualified and trained personnel were utilized. The Project Manager also interfaced directly with the CEHND project manager and was the primary contact with CEHND for this project.

### **5.2.2 Senior Unexploded Ordnance Supervisor**

The Senior UXO Supervisor was the lead technical position for the project. Successfully completed all field operations by directing and controlling all teams in the performance of delivery order requirements. Reviewed work/safety plans and implemented tasks as outlined. Assured personnel were provided details of tasks to be performed and were briefed on health and safety requirements. Continually evaluated operations to determine effectiveness and efficiency of established procedures and implemented corrective actions, when necessary. Provided guidance and direction to UXO Supervisors. Collected and compiled data provided by the UXO Supervisors. Prepared project reports and assured timely submission. Interfaced directly with the CEHND On-site Safety Specialist and was the technical contact with CEHND for this project.

The Senior Unexploded Ordnance Supervisor's log is located in **Annex B**.

### **5.2.3 Site Safety Officer/Quality Control Specialist**

Responsible for implementing the site safety plan and monitored personnel to assure safety and health rules were within compliance. Conducted and documented daily safety meetings. Maintained safety records on all health and safety issues.

Monitored activities and reported and documented deviations to established procedures. Implemented UXB Quality Control Plan and conducted procedures to measure the effectiveness of the work plan and quality of work. Reported findings in a timely manner.

The Site Safety Officer/Quality Control Specialist's logs are located at **Annex C**.

Both the Daily Safety Meeting Logs and the Safety Inspection Documentation is located in **Annex F**.

### **5.2.4 Unexploded Ordnance Supervisors**

Supervised UXO Specialists and other employees assigned to perform duties such as ordnance sweep, excavation, and demolition team members. Assured personnel conducted operations in accordance with established work and safety plan. Gathered data and recorded team daily activities and provided information to the Senior UXO Supervisor. Monitored team members to confirm safety equipment was serviceable and properly used. Reported to the Senior UXO Supervisor on a daily basis, but ultimately to UXB Senior Management on a regular basis.

The Unexploded Ordnance Supervisors' logs are located in **Annex D**.

### **5.2.5 Unexploded Ordnance Specialists**

Performed duties as directed by the UXO Supervisor. Responsible for understanding and complying with all the requirements of the work/safety plans. Was alert to potential hazardous situations and immediately brought them to the attention of the UXO Supervisor. Reported directly to the UXO Supervisor.

### **5.2.6 Magnetometer Operator**

Performed duties as directed by the UXO Supervisor. Was responsible for understanding and complying with all the requirements of the work/safety plans. Magnetometer operators were assigned to fully qualified UXO personnel and only performed duties while under the direct supervision of qualified UXO personnel. Were utilized on site to perform sweep operations and mark anomalies encountered. Did not perform any type of excavation (a UXO Supervisor\ Specialist performed a visual search of the complete area before non-UXO magnetometer operators were permitted to sweep an area).

### **5.2.7 Responsibilities of Teams**

#### **UXO Clearance Teams**

Established and laid out the search lanes; operated magnetometers and metal detectors; plotted and recorded surface OEW, OEW related materials, and subsurface OEW located during grid searches; identified and classified OEW and OEW components; conducted explosive ordnance disposal procedures of OEW when required; segregated and removed OEW scrap from the grid; and, when required, transported and disposed of OEW that was safe to move.

#### **Demolition Team**

A demolition team was not needed in support of this delivery order.

#### **Magnetometer Team**

Established and laid out the search lanes; operated magnetometers and metal detectors; marked anomalies as encountered; evacuated a grid prior to the commencement of intrusive operations.

### **5.3 Staffing**

The following Key Personnel were assigned to the project:

<u>Name</u>	<u>Position</u>
Rob Jones	Project Manager (Home Office)
Bill Walinus	Site Safety Officer/Quality Control
David R. Dyess	Senior UXO Supervisor
Jeff McCanch	UXO Supervisor/Survey Team
Ronny Drain	UXO Supervisor/Team #1
Frank Santino	UXO Supervisor/Team #2
Christopher Light	UXO Supervisor/Team #3
Ernest Kiehn	UXO Supervisor/Team #4
Robert Riepe	UXO Supervisor/Team #5
Fred Dull	UXO Supervisor/Team #6
Quan Le	UXO Supervisor/Team #7

### **6.0 Property Management Plan**

Equipment and material requirements were identified. The items were listed in various categories. Government Furnished Equipment (GFE) was identified and the remaining equipment/materials were obtained, using the competitive bidding process.

#### **6.1 Equipment Requirements**

UXB prepared a detailed property equipment plan list required to perform the SOW objectives. The plan identified the equipment and materials as durable or consumable. All property, which included durable and consumable goods, was accounted for on the Government Property Tracking Log. Property in excess of \$200.00 was also accounted for by receipt. The Senior UXO Supervisor established a stock level for consumables and monitored the quantity on hand to ensure levels did not fall below the amount required to continue the operation.

### **7.0 SUMMARY**

Upon approval of the work and safety plan, UXB personnel and equipment were mobilized to the Tooele Army Depot work site beginning on 24 October 1994. UXB commenced on-site operations on 31 October 1994. Intrusive work began on 14 November 1994. Operations were completed on 13 December 1995. Photographs depicting site operations are located in **Annex I**.



## **7.1 Modification to Scope of Work**

On 23 November 1994, CEHND requested that UXB conduct a survey of areas west of Grid Areas E and F (See Section 2.3.7). On 28 November 1994, the Tooele Environmental Office announced that the landowner of Area E planned to disc the area in early Spring 1995. Area E was given priority over the other areas. Area H was also extended to include an additional 200 feet-wide area southeast of the southeastern edge of the area.

## **7.2 Non-Completion of Original Scope of Work**

The original Scope of Work was not completed for the following reasons:

- The areas to be cleared in Grid Areas E, F, and H were increased.
- Bad weather and rough terrain limited back hoe operations.
- Eighty percent of the project's funding was expended to clear 40% of the areas in TEAD-N.
- It was anticipated that the work would be restarted in the Spring when the weather improved and that additional funding would be available to complete the work. This did not happen.

## **8.0 CONCLUSION**

### **8.1 Area of Contamination**

The area of contamination was greater than originally thought. Annex E and Annex M list the sites where OEW was recovered. The survey of the extension to Areas E and F was not detailed enough to give a true picture of ordnance contamination west of Grid Areas E and F.

### **8.2 Lessons Learned**

- Mobilize a small advance party, rather than the entire team, to ensure that all coordination is completed and equipment available for the job prior to the arrival of the main body of the work force.
- Check the types of radios furnished as GFE to ensure they are capable of communicating with each other. Of the 12 radios on site, five were UHF and seven were VHF. These radios were not capable of communicating with each other.
- The survey team should have at least two vehicles when working in remote/rough terrain. Had the survey vehicle broken down or become stuck while the team was

conducting survey operations (prior to the arrival of the main work force), they would have had a day's walk in bad weather to get to any assistance.

- Utility vehicles, rather than pickup trucks should be used as team transport vehicles. Unless they are "crew cab" models, pickup trucks are not designed to carry a four person team.

## **9.0 RECOMMENDATIONS**

### **9.1 Work Sites**

More work needs to be done on the site. The following work needs to be done:

**Grid Area E:** 80 grids need QC/QA.

**Grid Area F:** Only 13 of 240 grids (100' x 100') were cleared due to priority change. Recheck and dig grids F1-F8. Clear the remaining grids.

**Grid Area H:** H21, H23, H24, H25, H26 and H28 still need back hoe work. Back hoe work was not completed due to weather and unsafe back hoe working conditions.

**TEAD-S:** No work was done on TEAD-S.

**Extended Grid Areas E and F:** Repeat the survey and excavate all flagged anomalies.

### **9.2 Equipment**

Electronic equipment, such as computers, printers, facsimile machines, and copiers should be rented/leased locally for field projects. These items are not designed to be frequently shipped from place to place. Renting locally all increases the likelihood of responsive maintenance.

### **9.3 Communications**

#### **9.3.1 Internal Communications**

System used for internal on-site communications was the Motorola HT 1000 radio, or equivalent. As stated in Section 8.2, of the 12 GFE radios on site, five were UHF and seven were VHF. All GFE radios should be managed and maintained in sufficient quantities to meet field needs.

#### **9.3.2 External Communications**

External communications consisted of the public telephone system in place at the established on-site command post. This facility was equipped with multiple phone lines and facsimile capability.

Cellular phones were used to complement hard-line telephone communications and to serve as a backup means of internal communication.

### 9.3.3 Radio Frequencies and Call Signs

Radios were programmed to match CEHND established radio frequencies. Call signs used were:

Call Sign	User
UXB-1	Senior UXO Supervisor
UXB-2	Site Safety/Quality Control
UXB-3	Supervisor, UXO Clearance Team 1
UXB-4	Supervisor, UXO Clearance Team 2
UXB-5	Supervisor, UXO Clearance Team 3
UXB-6	Supervisor, UXO Clearance Team 4
UXB-7	Supervisor, UXO Clearance Team 5
UXB-8	Supervisor, UXO Clearance Team 6
UXB-9	Supervisor, Survey Team

## 10.0 ANNEXES

**Annex A OEW Recovered and Disposition** - A listing of all OEW recovered. This Annex is located in Book 1.

**Annex B Daily Journal - Senior UXO Supervisor** - A copy of the Senior UXO Supervisor's daily journal. This Annex is located in Book 2.

**Annex C Quality Assurance** - A copy of the government's Quality Assurance tests. This Annex is located in Book 2.

**Annex D Daily Journals - UXO Supervisors** - A copy of the UXO Supervisors' daily journals. This Annex is located in Book 2.

**Annex E Grid Sketch Sheets** - Copies of the survey teams' daily grid sketch sheets showing the areas checked and findings. This Annex is located in Books 3.

**Annex F Daily Safety Meeting Logs/Safety Inspection Documentation** - Copies of the daily

Safety meeting logs indicating the safety topics covered and persons attending. Also copies of all safety inspection documentation. This Annex is located in Book 1.

**Annex G Exposure Data** - Total man-hours worked and vehicle miles driven in support of this project. This Annex is located in Book 1.

**Annex H Financial Breakdown** - Costs associated with this project as of 31 August 1995. Costs are broken down by labor, travel, and materials. This Annex is located in Book 1.

**Annex I Photographs** - Photographs of the OEW found during this project. This Annex is located in Book 1.

**Annex J Video Tape** - A video tape depicting each phase of this project. This Annex is distributed separately from the rest of the report.

**Annex K Scope of Work** - Copy of the Scope of Work for this project. This Annex is located in Book 1.

**Annex L Public Meeting Record** - *Not Used*

**Annex M Survey and Mapping Plan Final Report** - Survey data for this project. This Annex is located in Book 4.

**Annex N Distribution** - This Annex is located in Book 1.

# APPENDIX A

At Close of Business on 13 December, 1994, the status of the OEW removal action in support of DACA87-93-D-0002 (Delivery Order 0019) was as follows:

1. **Grid Area E:** One hundred sixty grids were surveyed with magnetometers, flagged and excavated. Eighty grids passed QC and CEHND QA. Time expired prior to the remaining 80 excavated grids being able to receive a QC or QA. Steel stakes mark the corners of uncompleted grids in Grid Areas E and F to facilitate relocation during the next phase of operations. No BIP items were recovered. Following is a list of ordnance items recovered from Grid Area E and turned over to TEAD personnel for disposal:

<u>Grid#</u>	<u>Quantity</u>	<u>Nomenclature</u>
Grid E1	3 each	BD (base detonating) fuzes
Grid E2	1 each	PD (point detonating) fuze
E2	1 each	BD fuze
E2	1 each	VT (variable time) fuze
Grid E3	1 each	30mm HE without fuze
E3	3 each	BD fuzes
E3	1 each	MTSQ (mechanical time, super quick) fuze
Grid E4	1 each	BD fuze
E4	2 each	PD fuzes
E4	1 each	VT fuze
Grid E5	2 each	PD fuze
E5	1 each	BD fuze
Grid E6	1 each	BD fuze
E6	1 each	PD fuze
Grid E7	1 each	105mm HE without fuze
E7	1 each	30mm HE without fuze
Grid E8	1 each	BD fuze
E8	2 each	PD fuzes
Grid E9	3 each	BD fuzes
E9	1 each	PD fuze
Grid E10	5 each	BD fuzes
Grid E11	6 each	BD fuzes
E11	1 each	PD fuze
E11	1 each	M103 fuze
Grid E12	2 each	BD fuzes
E12	1 each	PD fuze
Grid E13	4 each	BD fuzes
E13	2 each	PD fuzes
Grid E14	2 each	BD fuzes
E14	2 each	PD fuzes
Grid E15	5 each	BD fuzes

<b><u>Grid#</u></b>	<b><u>Quantity</u></b>	<b><u>Nomenclature</u></b>
E15	2 each	PD fuzes
Grid E16	1 each	90mm HE without fuze
E16	2 each	BD fuzes
E16	2 each	PD fuzes
E16	1 each	57mm HE without fuze
E16	1 each	VT fuze
Grid E17	1 each	PD fuze
E17	4 each	BD fuzes
Grid E18	1 each	M103 fuze
E18	1 each	57mm HE without fuze
E18	1 each	PD fuze
E18	1 each	MTSQ fuze
E18	1 each	BD fuze
Grid E19	2 each	MTSQ fuzes
E19	1 each	BD fuze
Grid E20	7 each	BD fuzes
Grid E21	2 each	M103 fuzes
E21	3 each	MTSQ fuzes
E21	3 each	BD fuzes
E21	1 each	4 oz. raw HE
Grid E22	1 each	Tracer
Grid E23	1 each	PD fuze
E23	1 each	BD fuze
E23	3 each	Tracers
Grid E24	2 each	BD fuzes
E24	1 each	Tracer
Grid E26	1 each	BD fuze
E26	1 each	90mm projectile without fuze
Grid E27	1 each	BD fuze
Grid E28	2 each	BD fuzes
Grid E29	1 each	BD fuze
Grid E30	1 each	BD fuze
Grid E31	1 each	BD fuze
Grid E32	1 each	BD fuze
Grid E35	1 each	PD fuze
Grid E36	1 each	BD fuze
Grid E38	1 each	PD fuze
Grid E42	1 each	BD fuze
Grid E44	1 each	BD fuze
Grid E49	2 each	BD fuzes
Grid E52	2 each	BD fuzes

<b><u>Grid#</u></b>	<b><u>Quantity</u></b>	<b><u>Nomenclature</u></b>
Grid E57	1 each	BD fuze
E57	1 each	PD fuze
Grid E59	1 each	Booster
Grid E60	1 each	105mm base assembly
Grid E61	1 each	BD fuze
E61	1 each	PD fuze
Grid E62	1 each	PD fuze
E62	1 each	40mm HE unfuzed
Grid E63	2 each	BD fuzes
Grid E64	3 each	BD fuzes
E64	1 each	PD fuze
Grid E65	1 each	5" base HE
Grid E66	2 each	BD fuzes
Grid E67	2 each	MTSQ fuzes
E67	1 each	BD fuze
Grid E68	1 each	MTSQ fuze
E68	2 each	BD fuzes
Grid E69	1 each	BD fuze
E69	2 each	PD fuzes
Grid E70	1 each	2.75" rocket motor nose
Grid E71	1 each	PD fuze
Grid E73	2 each	BD fuzes
Grid E74	1 each	37mm projectile unfuzed
Grid E76	1 each	BD fuze
Grid E77	2 each	37mm HE unfuzed
E77	1 each	PD fuze
E77	2 each	BD fuzes
E77	1 each	M103 fuze
Grid E78	1 each	BD fuze
E78	1 each	90mm HE unfuzed
Grid E79	2 each	37mm projectile unfuzed
Grid E80	1 each	Bomb fuze
E80	2 each	BD fuzes
Grid E82	2 each	BD fuzes
Grid E83	1 each	BD fuze
Grid E84	1 each	BD fuze
Grid E85	2 each	BD fuzes
E85	1 each	37mm projectile unfuzed
Grid E87	1 each	105mm projectile unfuzed
E87	1 each	PD fuze
Grid E90	1 each	BD fuze



<b><u>Grid#</u></b>	<b><u>Quantity</u></b>	<b><u>Nomenclature</u></b>
Grid E91	1 each	PD fuze
E91	1 each	BD fuze
Grid E92	1 each	37mm projectile unfuzed
E92	1 each	PD fuze
Grid E94	1 each	VT fuze
E94	1 each	BD fuze
Grid E95	1 each	VT fuze
E95	1 each	MTSQ fuze
E95	1 each	BD fuze
Grid E96	1 each	57mm projectile unfuzed
E96	2 each	BD fuze
E96	2 each	MTSQ fuzes
Grid E97	1 each	BD fuze
E97	1 each	90mm HE unfuzed
E97	1 each	Booster
Grid E98	5 each	BD fuzes
E98	1 each	PD fuze
Grid E99	1 each	57mm HE unfuzed
Grid E100	1 each	40mm HE unfuzed
E100	2 each	BD fuze
E100	1 each	PD fuze
Grid E103	1 each	90mm HE unfuzed
Grid E106	1 each	20 lb fragmentation bomb
Grid E108	1 each	BD fuze
Grid E109	2 each	BD fuzes
Grid E111	2 each	BD fuzes
E111	1 each	MTSQ fuze
Grid E114	1 each	90mm HE unfuzed
Grid E124	1 each	PD fuze
E124	1 each	90mm HE unfuzed
Grid E126	1 each	MTSQ fuze
Grid E127	1 each	M103 fuze
Grid E129	1 each	57mm HE unfuzed
E129	1 each	BD fuze
Grid E131	1 each	PD fuze
Grid E132	2 each	BD fuzes
Grid E133	1 each	BD fuze
Grid E135	3 each	BD fuzes
E135	1 each	57mm HE
Grid E136	1 each	BD fuze
Grid E137	1 each	BD fuze

<b><u>Grid#</u></b>	<b><u>Quantity</u></b>	<b><u>Nomenclature</u></b>
Grid E138	1 each	M103 fuze
Grid E140	1 each	PD fuze
Grid E141	1 each	105mm projectile nose unfuzed
Grid E142	2 each	BD fuzes
E142	1 each	57mm HE unfuzed
E142	1 each	MTSQ fuze
E142	1 each	Nose fuze
Grid E143	1 each	HE/fragmentation bomb unfuzed
Grid E144	1 each	BD fuze
Grid E145	1 each	M103 fuze
E145	2 each	PD fuzes
E145	1 each	BD fuze
Grid E146	2 each	BD fuzes
E146	1 each	PD fuze
Grid E147	1 each	BD fuze
Grid E149	1 each	BD fuze
E149	1 each	PD fuze
E149	1 each	37mm HE
Grid E150	2 each	57mm HE
E150	1 each	PD fuze
Grid E154	1 each	BD fuze
Grid E156	1 each	PD fuze
Grid E157	1 each	M103 fuze
<b>Total:</b>	<b>260 each</b>	

<b><u>Grid#</u></b>	<b><u>Quantity</u></b>	<b><u>Nomenclature</u></b>
NE of Area E	1 each	BD fuze
<b>Total</b>	<b>1 each</b>	

2. **Grid Area F:** Grid Area F consists of 240 grids (100' x 100') and is partially complete. Area F has been completely staked and gridded. Thirteen grids were surveyed with magnetometers and flagged. Ten grids were excavated. Due to a work priority change, Area F was not completed on this work cycle. No BIP items were found by UXB personnel. Following is a list by grid number of ordnance items recovered and turned over to TEAD personnel for disposal:

<b><u>Grid#</u></b>	<b><u>Quantity</u></b>	<b><u>Nomenclature</u></b>
Grid F1	4 each	BD fuzes
F1	3 each	PD fuzes
Grid F2	4 each	BD fuzes
F2	4 each	PD fuzes
Grid F3	7 each	BD fuzes
F3	1 each	Bomb fuze
F3	1 each	PD fuze
Grid F4	1 each	BD fuze
F4	1 each	37mm HE without fuze
Grid F5	2 each	BD fuzes
F5	1 each	MTSQ fuze
Grid F6	1 each	BD fuze
F6	2 each	MTSQ fuzes
Grid F7	2 each	BD fuzes
F7	1 each	VT fuze
F7	1 each	M103 fuze
Grid F8	3 each	MTSQ fuzes
F8	3 each	BD fuzes
Grid F17	2 each	BD fuzes
F17	1 each	PD fuze
F17	1 each	37mm HE without fuze
Grid F106	1 each	37mm APHE
<b>Total:</b>	<b>47 each</b>	

No BIP items were found in areas west of Grid Areas E and F. All items were turned over to TEAD personnel for disposal.

#### Survey of area west of Grid Areas E and F:

Per the request of CEHND, a survey of the area west of Grid Areas E and F was performed by UXB on 23 November 1994. The survey was performed on an east/west axis with UXB personnel equipped with Schonstedt Detectors surveying five-foot wide paths at 50' intervals for the entire 6400' distance. A total of 318 contacts were flagged.

The strongest 15 magnometer contacts (flags) in the survey area were double flagged for subsequent excavation.

The 15 contacts were excavated with the following results: One BD fuze was the only ordnance item found. It was turned over to TEAD personnel for disposal. The remaining 14 contacts were magnetic rock and metal debris.

The survey was not detailed enough to give a true picture of ordnance contamination west of Grid Areas E and F and UXB recommended that they repeat the survey (using the same parameters) and excavate all flagged anomalies.

A resurvey of the area west of Grid Areas E and F was started on 6 December 1994 and completed on 7 December 1994. The parameters of the original survey during November were followed except all flagged anomalies were excavated.

### **Results:**

Area west of Grid Area E: 142 flags were placed. Four flags marked ordnance items:

<b><u>Nomenclature</u></b>	<b><u>Quantity</u></b>
BD fuze	1 each
155mm base	1 each
M103 fuze	1 each
90mm nose unfuzed	1 each
<b>Total:</b>	<b>4 each</b>

Area west of Grid Area F: 28 flags were placed. Six flags marked ordnance items:

<b><u>Nomenclature</u></b>	<b><u>Quantity</u></b>
M103 fuzes	2 each
BD fuzes	4 each
<b>Total:</b>	<b>6 each</b>

3. **Grid Area G:** Grid Area G consists of 45 grids. Forty grids are 100' x 100' and five grids are 50' x 100'. All grids were surveyed with magnetometers, flagged, and excavated as required. Three grids having large anomalies deeper than two feet were designated backhoe grids. All grids have had QC and QA evaluations performed with no noted discrepancies. No BIP items were found by UXB personnel. Following is a list by grid number of ordnance items recovered from Grid Area G which were turned over to TEAD personnel for disposal:

<b><u>Grid #</u></b>	<b><u>Quantity.</u></b>	<b><u>Nomenclature</u></b>
Grid G1	2 each	BD fuzes
Grid G2	1 each	BD fuze
Grid G4	1 each	Bomb fuze
Grid G9	1 each	BD fuze

<u>Grid #</u>	<u>Quantity</u>	<u>Nomenclature</u>
Grid G11	1 each	BD fuze
Grid G12	1 each	BD fuze
Grid G20	2 each	BD fuzes
Grid G21	2 each	BD fuzes
Grid G24	1 each	75mm HE, without fuze
Grid G30	1 each	BD fuze
Grid G31	1 each	BD fuze
Grid G33	1 each	Projectile, HE, without fuze
Grid G38	1 each	BD fuze
G38	1 each	MTSQ fuze
Grid G43	1 each	57mm SAP (semi armor piercing) fuze

**TOTAL:           18 each**

4. **Grid Area H:** Grid Area H consists of 128 100' x 100' grids. All grids were surveyed with magnetometers and flagged. Area H had nine back hoe designated grids, three of which were completed. The six remaining grids (H21, H23, H24, H25, H26, and H28) will be completed during the next phases of the project. They were not completed during this phase due to weather and unsafe back hoe working conditions (ravine area). The corners of the six grids were marked with steel stakes to facilitate relocation during the next phase of operations. All other grids were excavated, and the QC and QA were performed with passing results. No BIP action was required. Following is a list of ordnance items recovered from Grid Area H and turned over to TEAD personnel for disposal:

<u>Grid #</u>	<u>Quantity</u>	<u>Nomenclature</u>
Grid H9	1 each	BD fuze
Grid H20	1 each	PD fuze
Grid H27	1 each	BD fuze
Grid H29	1 each	BD fuze
Grid H30	1 each	PD fuze
Grid H32	1 each	90mm HE without fuze
Grid H33	2 each	BD fuzes
Grid H34	1 each	BD fuze
Grid H36	1 each	BD fuze
H36	1 each	MT (mechanical time) fuze
Grid H37	1 each	BD fuze
Grid H39	1 each	BD fuze
Grid H40	1 each	M103 fuze
Grid H41	1 each	BD fuze
Grid H42	1 each	M103 fuze

<u>Grid #</u>	<u>Quantity</u>	<u>Nomenclature</u>
Grid H116	1 each	BD fuze
Grid H123	1 each	Rocket fuze
<b>Total:</b>	<b>63 each</b>	

At the request of the U.S. Army Corps of Engineers and the Tooele Environmental Office, a survey was conducted on a portion of the area south of Grid Area H starting at a point 1300 feet from the western most point and running to the eastern most point of Grid Area H. The survey area extended 200 feet south of the existing grid. Every other grid (100' x 100') was surveyed on 10' foot lines north to south. Survey paths were 5' wide. Adjacent surveyed areas, for example, Grid H112 southern survey area, was identified as Grid H112A for ordnance recording purposes. Survey of the area south of Grid Area H was completed on 8 December 1994. No BIP items were recovered. Following is a list of ordnance items recovered and turned over to TEAD personnel for disposal:

<u>Grid#</u>	<u>Quantity</u>	<u>Nomenclature</u>
Grid H32A	1 each	PD fuze
H32A	1 each	75mm HE unfuzed
Grid H36A	1 each	BD fuze
H36A	1 each	PD fuze
Grid H48A	1 each	37mm HE unfuzed
H48A	1 each	PD fuze
Grid H52A	1 each	BD fuze
H52A	1 each	PD fuze
Grid H56A	1 each	BD fuze
H56A	1 each	M103 fuze
Grid H64A	1 each	M103 fuze
Grid H72A	1 each	20mm HE unfuzed
H72A	1 each	.50 caliber projectile
Grid H80A	1 each	M103 fuze
Grid H88A	1 each	81mm HE unfuzed
Grid H92A	1 each	VT fuze
Grid H96A	1 each	BD fuze
Grid H100A	3 each	BD fuzes
Grid H108A	2 each	PD fuzes
Grid H109A	1 each	PD fuze
Grid H112A	2 each	PD fuzes
H112A	1 each	75mm HE
H112A	1 each	M103 fuze

Grid H42	1 each	BD fuze
H42	1 each	90mm HEP, partial
Grid H43	2 each	BD fuzes
Grid H44	1 each	BD fuze
Grid H45	1 each	VT, MK 20 fuze
Grid H46	1 each	MTSQ fuze
Grid H47	1 each	BD fuze
H47	1 each	VT fuze
Grid H51	1 each	BD fuze
H51	1 each	8 oz. raw HE
Grid H56	1 each	BD fuze
Grid H57	1 each	MTSQ fuze
Grid H58	1 each	M103 fuze
H58	1 each	BD fuze
Grid H61	1 each	BD fuze
Grid H63	1 each	BD fuze
Grid H64	1 each	BD fuze
Grid H65	1 each	BD fuze
Grid H67	1 each	BD fuze
Grid H69	1 each	PD fuze
Grid H71	1 each	BD fuze
Grid H74	1 each	PD fuze
Grid H75	1 each	BD fuze
H75	1 each	M103 fuze
Grid H76	1 each	90mm projectile without fuze
Grid H79	1 each	BD fuze
Grid H86	1 each	BD fuze
Grid H87	1 each	MT fuze
H87	1 each	BD fuze
Grid H88	1 each	BD fuze
H88	1 each	81mm HE without fuze
Grid H89	1 each	3.5" rocket motor
Grid H90	1 each	fragmentation bomb unfuzed
Grid H91	1 each	M103 fuze
H91	1 each	BD fuze
Grid H96	2 each	BD fuzes
Grid H98	1 each	BD fuze
Grid H99	1 each	PD fuze
Grid H106	1 each	20 lb. fragmentation bomb unfuzed
Grid H107	1 each	BD fuze
Grid H111	1 each	BD fuze
H111	1 each	3.5" rocket motor
Grid H114	1 each	BD fuze

<b><u>Grid#</u></b>	<b><u>Quantity</u></b>	<b><u>Nomenclature</u></b>
Grid H116A	1 each	PD fuze
<b>Total:</b>	<b>28 each</b>	

5. **Grid Area I:** Grid Area I consisting of 20 individual 100' x 100' grids was surveyed with magnetometers, flagged, and excavated. Quality Control inspection by the UXB on-site QC specialist was performed with no discrepancies noted. The CEHND Safety Specialist on-site QA evaluation was performed with no discrepancies noted. No BIP procedures were required by UXB personnel. Following is a list, by grid number, of ordnance items recovered and turned over to TEAD personnel for disposal:

Grid I2: 1 Each BD fuze

6. **Summary:** Eighty percent of forecast funds were expended to complete 40% of the work on Tooele North. No work was completed at Tooele South. No BIP action was necessary by UXB personnel. Total ordnance items recovered and turned over to TEAD personnel for disposal: **428**



## **ANNEX F**

### **Daily Safety Meeting Logs/Safety Inspection Documentation**



UXB International, Inc.

# OEW Operations Safety Inspection Log

Date: 30 NOV 94 Time: 1500 Contract Number: DACA87-93-D-002

Delivery Order Number: 0019 Location: TOOLE Army Depot

Weather Conditions: 35°, 10-15 mph wind, Cloudy 60% humidity

## I. Areas Inspected: (List by grid number, coordinates, or description)

FIRST AID Gear, Emergency Response

Area E

Team 3 & 5

3- Krentz, Bates, Jackson, McGowan

5- Riepe, Petrus, Morgan & Papenthien

II. Inspection Results: All 1st Aid gear in vehicle both teams  
displayed & required knowledge of Emergency Response  
Requirements,

III. Corrective Actions Recommended: None

IV. Reinspection Results: Not Applicable

## V. Signatures:

[Signature]  
Site Safety Officer

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

[Signature]  
Sr. UXO Supervisor/Project Manager



UXB International, Inc.

## OEW Operations Safety Inspection Log

Date: 29 Nov 94 Time: 0800 Contract Number: DACA87-93-D-002

Delivery Order Number: 0019 Location: TOOGLE Army Depot

Weather Conditions: 22°F, 88% humidity, Partly Cloudy, 20 mph wind SE,

### I. Areas Inspected: (List by grid number, coordinates, or description)

FIRST Aid Equipment, Emergency Response  
TEAM 1 Area H Drain, Schgar + Bird  
TEAM 7 Area E QUANTLE, PARS, BARS, Newburg

II. Inspection Results: Spot check of both teams accomplished no  
discrepancies noted

III. Corrective Actions Recommended: None Required

IV. Reinspection Results: Not Applicable

### V. Signatures:

Site Safety Officer

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

Daniel R. Dyer  
Sr. UXO Supervisor/Project Manager



UXB International, Inc.

# QEW Operations Safety Inspection Log

Date: 23 Nov 94 Time: 1330 Contract Number: DACA87-93-D-002

Delivery Order Number: 0019 Location: TOOGLE Army Depot

Weather Conditions: cloudy, 28°F, 16+ mph w-winds, 95% humidity

## I. Areas Inspected: (List by grid number, coordinates, or description)

First Aid equipment, Emergency Response

Team 2. Santina Webb, Perry, Dodds.

Team 7 Quable, Parris, Bates, Newbury

II. Inspection Results: Satisfactory - no discrepancies noted.

III. Corrective Actions Recommended: None

IV. Reinspection Results: Not applicable

## V. Signatures:

[Signature]  
Site Safety Officer

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

[Signature]  
Sr. UXO Supervisor/Project Manager



UXB International, Inc.

## OEW Operations Safety Inspection Log

Date: 23 May 94 Time: 1400 Contract Number: DACA87-93-D-002

Delivery Order Number: 0019 Location: TOOLE Army Depot

Weather Conditions: 30°F, Mostly Sunny 7 mph SE wind, 90% humidity.

I. Areas Inspected: (List by grid number, coordinates, or description)

First Aid Equipment, Emergency response procedures.

Team 1 DRAIN, SCHAEFF & BLEN

Survey McCann, Steele & Sorensen.

II. Inspection Results: Sparked a spot check of above listed personnel  
found led to no discrepancies noted. Request First Aid gear on  
hand / Emergency evacuation & hospital route known.

III. Corrective Actions Recommended: None

IV. Reinspection Results: Not Applicable

V. Signatures:

[Signature]  
Site Safety Officer

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

[Signature]  
Sr. UXO Supervisor/Project Manager



UXB International, Inc.

# OEW Operations Safety Inspection Log

Date: 22 Nov 94 Time: 1430 Contract Number: DACA87-93-D-002

Delivery/Order Number: 0019 Location: TOOGLE Army Depot

Weather Conditions: 30°F, Clear, sunny, 9 mph SE wind, 94% humidity.

## I. Areas Inspected: (List by grid number, coordinates, or description)

1st Aid Gear, Emergency Response.  
Team 5:6 slots checked

II. Inspection Results: All required 1st Aid gear on hand.  
Personnel aware of emergency response requirements.  
No discrepancies noted.

III. Corrective Actions Recommended: Not Required

IV. Reinspection Results: Not Applicable

## V. Signatures:

Site Safety Officer

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

David R. Dyer  
Sr. UXO Supervisor/Project Manager



UXB International, Inc.

# OEW Operations Safety Inspection Log

Date: 21 Nov 94 Time: 0930-110 Contract Number: DACA87-93-D-002

Delivery Order Number: 0019 Location: TOOGLE Army Depot

Weather Conditions: 28°F Light Snow, 93% humidity, 6 mph E winds.

## I. Areas Inspected: (List by grid number, coordinates, or description)

Emergency / First Aid

Ran 1, 6, Survey.

II. Inspection Results: Passed, no discrepancies. Above items were  
spot checked, our first aid equipment required in vehicles,  
Emergency response telephone its, Evac routes understood

III. Corrective Actions Recommended: None Required

IV. Reinspection Results: Not Applicable

## V. Signatures:

[Signature]  
Site Safety Officer

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

[Signature]  
Sr. UXO Supervisor/Project Manager



UXB International, Inc.

## OEW Operations Safety Inspection Log

Date: 17 Nov 94 Time: 0800 Contract Number: DACA87-93-D-002

Delivery Order Number: 0019 Location: TOOGLE Army Depot

Weather Conditions: 24° ↓ Light Snow, 10+ mph SW winds, 98% humidity

I. Areas Inspected: (List by grid number, coordinates, or description)

Emergency Response / 1st Aid Equipment  
Tanks 1 thru 7 and heavy ice attached to tank

II. Inspection Results: All personnel understood emergency response plans  
and evacuation routes. All vehicles equipped with required  
1st Aid gear

III. Corrective Actions Recommended: None

IV. Reinspection Results: Not Required

V. Signatures:

[Signature]  
Site Safety Officer

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

[Signature]  
Sr. UXO Supervisor/Project Manager



UXB TEAM ROSTER

TEAM 1

Ronny Drain (TC)  
Darrell Davis  
Joe Bird  
C.M. Schapp

TEAM 2

Frank Santino (TC)  
Jerry Webb  
Walter Perry  
Tony Dodds

TEAM 3

Christopher Light (TC)  
Marvette Bates  
James Jackson  
Kevin McCarthy

TEAM 4

Ernest Kiehn (TC)  
Richard Coleman  
James Reed  
James Green

TEAM 5

Robert Riepe (TC)  
David Peters  
Charles Morgan  
Brian Papenthien

TEAM 6

Fred Dull (TC)  
Forrest Irvin  
Raymond McManus  
Marvin Magill

TEAM 7

Quan Le (TC)  
Michael Parris  
Kenneth Bates  
Justin Newbury

SURVEY TEAM

Jeffrey McCanch (TC)  
James Steele  
Randy Sorenson



UXB International, Inc.

# OEW Operations Safety Inspection Log

Date: 16 Nov 94 Time: 1400 Contract Number: DACA87-93-D-002

Delivery Order Number: 0019 Location: TOOGLE Army Depot

Weather Conditions: Light Snow, 33°F, Overcast, 97% Humidity

## I. Areas Inspected: (List by grid number, coordinates, or description)

First Aid Equipment / Emergency Response Procedures  
Team 1, Team 5.

II. Inspection Results: Spot check of teams 1 & 5 was conducted  
no discrepancies noted

III. Corrective Actions Recommended: None Required

IV. Reinspection Results: Not applicable

## V. Signatures:

Site Safety Officer

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

David R. Dyer  
Sr. UXO Supervisor/Project Manager

UXB TEAM ROSTER

TEAM 1

Ronny Drain (TC)  
Darrell Davis  
Joe Bird

TEAM 2

~~Frank Santino~~ (TC)  
Jerry Webb  
Walter Perry  
~~Tony Dodds~~

TEAM 3

~~Christopher Light~~ (TC)  
Marvette Bates  
James Jackson  
~~Kevin McCarthy~~

TEAM 4

~~Ernest Kienn~~ (TC)  
Richard Coleman  
James Reed  
~~James Green~~

TEAM 5

Robert Riepe (TC)  
David Peters  
Charles Morgan  
Brian Papenthien

TEAM 6

~~Fred Dull~~ (TC)  
Forrest Irvin  
Raymond McManus  
~~Marvin Magill~~

TEAM 7

~~Quan Le~~ (TC)  
Michael Parris  
Kenneth Bates  
~~Justin Newbury~~

SURVEY TEAM

~~Jeffrey McCanch~~ (TC)  
James Steele  
~~Randy Sorenson~~



UXB International, Inc.

# OEWS Operations Safety Inspection Log

Date: 15 Nov 94 Time: 0800/1100 Contract Number: DACA87-93-D-002

Delivery Order Number: 0019 Location: TOOLE Army Depot

Weather Conditions: 22-40°F, Winds S-15mph. Clear to P/Cloudy, 85% Humidity

## I. Areas Inspected: (List by grid number, coordinates, or description)

Emergency Response/First Aid equipment.  
Teams 2/4/6 & 7 Areas G, E and F  
Survey -

II. Inspection Results: A spot check of 4 teams was conducted  
All required 1st Aid equipment was observed. Personnel  
reviewed emergency action procedures.

III. Corrective Actions Recommended: None

IV. Reinspection Results: Not Required

## V. Signatures:

[Signature]  
Site Safety Officer

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

[Signature]  
Sr. UXO Supervisor/Project Manager

UXB TEAM ROSTER

TEAM 1

~~Ronny Drain~~ (TC)  
Darrell Davis  
~~Joe Bird~~

TEAM 2

Frank Santino (TC)  
Jerry Webb  
Walter Perry  
Tony Dodds

TEAM 3

~~Christopher Light~~ (TC)  
Marvette Bates  
James Jackson  
~~Kevin McCarthy~~

TEAM 4

Ernest Kiehn (TC)  
Richard Coleman  
James Reed  
James Green

TEAM 5

~~Robert Riepe~~ (TC)  
David Peters  
Charles Morgan  
~~Brian Papenthien~~

TEAM 6

Fred Dull (TC)  
Forrest Irvin  
Raymond McManus  
Marvin Magill

TEAM 7

Quan Le (TC)  
Michael Parris  
Kenneth Bates  
Justin Newbury

SURVEY TEAM

~~Jeffrey McAnch~~ (TC)  
~~James Steele~~  
~~Randy Sorenson~~



UXB International, Inc.

## OEW Operations Safety Inspection Log

Date: 14 Nov 94 Time: 1500 Contract Number: DACA87-G3-D-002

Delivery Order Number: 0019 Location: TOOGLE Army Depot

Weather Conditions: Clear, 30°F, 10-15 mph (W) wind, 38% humidity

I. Areas Inspected: (List by grid number, coordinates, or description)

All teams were checked to insure 1st Aid kit available  
and emergency actions are understood. See attached poster  
for personnel involved.

II. Inspection Results: No discrepancies noted. All teams  
have 1st Aid kit available at this time.

III. Corrective Actions Recommended: Not Required.

IV. Reinspection Results: Not Applicable.

V. Signatures:

[Signature]  
Site Safety Officer

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

[Signature]  
Sr. UXO Supervisor/Project Manager

UXB TEAM ROSTER

TEAM 1

Ronny Drain (TC)  
Darrell Davis  
Joe Bird

TEAM 2

Frank Santino (TC)  
Jerry Webb  
Walter Perry  
Tony Dodds

TEAM 3

Christopher Light (TC)  
Marvette Bates  
James Jackson  
Kevin McCarthy

TEAM 4

Ernest Kiehn (TC)  
Richard Coleman  
James Reed  
James Green

TEAM 5

Robert Riepe (TC)  
David Peters  
Charles Morgan  
Brian Papenthien

TEAM 6

Fred Dull (TC)  
Forrest Irvin  
Raymond McManus  
Marvin Magill

TEAM 7

Quan Le (TC)  
Michael Parris  
Kenneth Bates  
Justin Newbury

SURVEY TEAM

Jeffrey McCanch (TC)  
James Steele  
Randy Sorenson



UXB International, Inc.

# OEW Operations Safety Inspection Log

Date: 10 Nov 94 Time: 0900 Contract Number: DACA87-93-D-002

Delivery Order Number: 0019 Location: TOOGLE Army Depot

Weather Conditions: Partly Cloudy, S/P, 3-winds 18-35 mph, 38% Humidity

## I. Areas Inspected: (List by grid number, coordinates, or description)

EMERGENCY Response Procedures / First Aid equipment

Teams 1, 2, 3, 4, 5, 6 and 7

See attached roster for personnel involved

II. Inspection Results: All vehicles have emergency response  
notification kits and evacuation routes. Personnel knowledgeable  
on actions to be taken. 3 First Aid kits still on  
order.

III. Corrective Actions Recommended: Same as yesterday. - Buddy  
System for teams / supervisors with our 1st Aid kit  
kits have been shipped. If not on site Monday -  
3 kits will be purchased.

IV. Reinspection Results: Note: 14 Nov 94 - All teams  
have 1st Aid kits.

## V. Signatures:

[Signature]  
Site Safety Officer

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

[Signature]  
Sr. UXO Supervisor/Project Manager



UXB TEAM ROSTER

TEAM 1

Ronny Drain (TC)  
Darrell Davis  
Joe Bird

TEAM 2

Frank Santino (TC)  
Jerry Webb  
Walter Perry  
Tony Dodds

TEAM 3

Christopher Light (TC)  
Marvette Bates  
James Jackson  
Kevin McCarthy

TEAM 4

Ernest Kiehn (TC)  
Richard Coleman  
James Reed  
James Green

TEAM 5

Robert Riepe (TC)  
David Peters  
Charles Morgan  
Brian Papenthien

TEAM 6

Fred Dull (TC)  
Forrest Irvin  
Raymond McManus  
Marvin Magill

TEAM 7

Quan Le (TC)  
Michael Parris  
Kenneth Bates  
Justin Newbury

SURVEY TEAM

Jeffrey McCanch (TC)  
James Steele  
Randy Sorenson



UXB International, Inc.

# OEW Operations Safety Inspection Log

Date: 9 Nov 94 Time: 0830 Contract Number: DACA87-93-D-002

Delivery Order Number: 0019 Location: TOOELE Army Depot

Weather Conditions: \_\_\_\_\_

## I. Areas Inspected: (List by grid number, coordinates, or description)

EMERGENCY / FIRST AID EQUIPMENT

TEAMS checked for knowledge of emergency routes

Phone #s And First Aid Gear Available

See Attached Roster for personnel involved

## II. Inspection Results: All Teams on Site G Area Have required

First Aid Kits. Team 3, Sarge & S. S. S. P. Required

First Aid Kits They are on order from corps. Buddy

System in use when teams are on site. All personnel

aware and understand emergency procedures.

## III. Corrective Actions Recommended: IF 1st Aid kit not delivered by

Thursday 10 Nov 94 by Monday 14 Nov 1994 we will

Purchase 3 kits required.

## IV. Reinspection Results: Nov 14 Nov 94 - All teams have

1st Aid Kits

## V. Signatures:

[Signature]  
Site Safety Officer

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

[Signature]  
Sr. UXO Supervisor/Project Manager

UXB TEAM ROSTER

TEAM 1

Ronny Drain (TC)  
Darrell Davis  
Joe Bird

TEAM 2

Frank Santino (TC)  
Jerry Webb  
Walter Perry  
Tony Dodds

TEAM 3

Christopher Light (TC)  
Marvette Bates  
James Jackson  
Kevin McCarthy

TEAM 4

Ernest Kiehn (TC)  
Richard Coleman  
James Reed  
James Green

TEAM 5

Robert Riepe (TC)  
David Peters  
Charles Morgan  
Brian Papenthien

TEAM 6

Fred Dull (TC)  
Forrest Irvin  
Raymond McManus  
Marvin Magill

TEAM 7

Quan Le (TC)  
Michael Parris  
Kenneth Bates  
Justin Newbury

SURVEY TEAM

Jeffrey McCanch (TC)  
James Steele  
Randy Sorenson



UXB International, Inc.

# OEW Operations Safety Inspection Log

Date: 30 Nov 94 Time: 0930 Contract Number: DACA87-93-D-002

Delivery Order Number: 0019 Location: TOOGLE Army Depot

Weather Conditions: 83°F, 10 mph winds, 66% humidity, mostly - Partly Cloudy

## I. Areas Inspected: (List by grid number, coordinates, or description)

Where Personnel

Pres. H. teams 1 & 2

1 - Deano, Brad, Schano

2 - Skrine, Webb, Perry & Rodda

## II. Inspection Results: Teams 1 & 2 S&S checked this date

NO DISCREPANCIES NOTED

## III. Corrective Actions Recommended: None

## IV. Reinspection Results: Not Applicable

## V. Signatures:

[Signature]  
Site Safety Officer

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

[Signature]  
Sr. UXO Supervisor/Project Manager



UXB International, Inc.

# OEW Operations Safety Inspection Log

Date: 29 Mar 94 Time: 1100 Contract Number: DACAG7-93-D-002

Delivery Order Number: 0019 Location: TOOGLE Army Depot

Weather Conditions: 22°F 88% humidity 15-20 mph SE wind, Partly Cloudy

## I. Areas Inspected: (List by grid number, coordinates, or description)

WORK PRACICES

TEAM 2, SANTINO, Dodds, WEBB, PERRY AREA H

TEAM 3, LIGHT, BATES, McCarty, JAMES AREA E

II. Inspection Results: No discrepancies noted - teams performing as required. CENHO observed no safety discrepancies

III. Corrective Actions Recommended: None Required

IV. Reinspection Results: Not Applicable

## V. Signatures:

[Signature]  
Site Safety Officer

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

[Signature]  
Sr. UXO Supervisor/Project Manager



UXB International, Inc.

# OEW Operations Safety Inspection Log

Date: 28 Nov 94 Time: 0915/1300 Contract Number: DACA87-93-D-002

Delivery Order Number: 0019 Location: TOOLE Army Depot

Weather Conditions: 28°F, W-Wind 16 mph, mostly Cloudy, 75% humidity.

## I. Areas Inspected: (List by grid number, coordinates, or description)

Work Places

All teams to include Safety Crew.

See Attached Roster

II. Inspection Results: Satisfactory. No discrepancies noted. All  
teams performance is more than excellent. WRE' CEHND safety  
on site noted no discrepancies

III. Corrective Actions Recommended: None Required

IV. Reinspection Results: Not Applicable

## V. Signatures:

[Signature]  
Site Safety Officer

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

[Signature]  
Sr. UXO Supervisor/Project Manager

UXB TEAM ROSTER

TEAM 1

Ronny Drain (TC)

~~Daniel Davis~~

Joe Bird

~~Frank Cammanata~~

Schane

TEAM 2

Frank Santino (TC)

Jerry Webb

Walter Perry

Tony Dodds

TEAM 3

Christopher Light (TC)

Marreita Bates

James Jackson

Kevin McCarthy

TEAM 4

Ernest Kiehn (TC)

Richard Coleman

James Reed

James Green

TEAM 5

Robert Riepe (TC)

David Peters

Charles Morgan

Brian ~~Papienthun~~

Papenthien

TEAM 6

Fred Dull (TC)

Forrest Irvin

Raymond McManU<sup>3</sup>

Marvin Magill

Team 7

Quan Le (TC)

Michael ~~Parris~~

Kenneth Bates

Justin Newbury

SURVEY TEAM

Jeffrey McCanch (TC)

James Steele

Randy Sorenson



UXB International, Inc.

## OEW Operations Safety Inspection Log

Date: 23 Dec 94 Time: 0930 Contract Number: DACAB7-93-D-002

Delivery Order Number: 0019 Location: TOOGLE Army Depot

Weather Conditions: Clear 15°F, 7 mph SE wind, 92% humidity.

I. Areas Inspected: (List by grid number, coordinates, or description)

Observed ALL items to include survey in and around Sector H.

II. Inspection Results: All personnel performing professionally. No discrepancies noted.

III. Corrective Actions Recommended: Not Applicable

IV. Reinspection Results: Not required

V. Signatures:

[Signature]  
Site Safety Officer

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

[Signature]  
Sr. UXO Supervisor/Project Manager



UXB TEAM ROSTER

TEAM 1

Ronny Drain (TC)  
Darrel Davis  
Joe Bird  
~~Frank Cammarata~~

Schaap

TEAM 2

Frank Santino (TC)  
Jerry Webb  
Walter Perry  
Tony Dodds

TEAM 3

Christopher Light (TC)  
Marreita Bates  
James Jackson  
Kevin McCarthy

TEAM 4

Ernest Kiehn (TC)  
Richard Coleman  
James Reed  
James Green

TEAM 5

Robert Riepe (TC)  
David Peters  
Charles Morgan  
Brian Papenthun

Papenthien

TEAM 6

Fred Dull (TC)  
Forrest Irvin  
Raymond McManus  
Marvin Magill

Team 7

Quan Le (TC)  
Michael Harris  
Kenneth Bates  
Justin Newbury

SURVEY TEAM

Jeffrey McCanch (TC)  
James Steele  
Randy Sorenson



UXB International, Inc.

# OEW Operations Safety Inspection Log

Date: 22 Nov 94 Time: 0900 Contract Number: DACA87-93-D-002

Delivery Order Number: 0019 Location: TOOGLE Army Depot

Weather Conditions: 20°F, 9 mph SE winds, Clear, Cool, 94% humidity

## I. Areas Inspected: (List by grid number, coordinates, or description)

Work Practice

Team 1 - AREA

Team 2 - AREA

Teams 3, 4, 5, 6 - ? AREA

Survey Lines Grid

II. Inspection Results: All teams performing in a very professional manner, no discrepancies were noted

III. Corrective Actions Recommended: Not Required

IV. Reinspection Results: Not Applicable

## V. Signatures:

[Signature]  
Site Safety Officer

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

[Signature]  
Sr. UXO Supervisor/Project Manager

UXB TEAM ROSTER

TEAM 1

Ronny Drain (TC)  
Darrel Davis  
Joe Bird  
~~Frank Camanata~~  
Scharf

TEAM 2

Frank Santino (TC)  
Jerry Webb  
Walter Perry  
Tony Dodds

TEAM 3

Christopher Light (TC)  
Marreita Bates  
James Jackson  
Kevin McCarthy

TEAM 4

Ernest Kiehn (TC)  
Richard Coleman  
James Reed  
James Green

TEAM 5

Robert Riepe (TC)  
David Peters  
Charles Morgan  
Brian Papenthun  
Papenthun

TEAM 6

Fred Dull (TC)  
Forrest Irvin  
Raymond McManus  
Marvin Magill

Team 7

Quan Le (TC)  
Michael Harris  
Kenneth Bates  
Justin Newbury

SURVEY TEAM

Jeffrey McCanch (TC)  
James Steele  
Randy Sorenson



UXB International, Inc.

# OEW Operations Safety Inspection Log

Date: 21 Nov 94 Time: 0930/1200 Contract Number: DACA87-93-D-002

Delivery Order Number: 0019 Location: TOOGLE Army Depot

Weather Conditions: 28°F, Light Snow, 98% Humidity, 6 mph E winds.

## I. Areas Inspected: (List by grid number, coordinates, or description)

Work Practices

Team 1 - G AREA Digging

Team 2 - E AREA Digging

Team 3 thru 7 - H AREA Waste Pile

Survey - AREA I, G.

II. Inspection Results: All personnel using exakt work practices in cold snowy conditions. No discrepancies were noted.

III. Corrective Actions Recommended: Not applicable

IV. Reinspection Results: Not required

## V. Signatures:

[Signature]  
Site Safety Officer

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

[Signature]  
Sr. UXO Supervisor/Project Manager

UXB TEAM ROSTER

TEAM 1

Ronny Drain (TC)  
Darrel Davis  
Joe Bird  
~~Frank Cammanata~~  
Schane

TEAM 2

Frank Santino (TC)  
Jerry Webb  
Walter Perry  
Tony Dodds

TEAM 3

Christopher Light (TC)  
Marreita Bates  
James Jackson  
Kevin McCarthy

TEAM 4

Ernest Kiehn (TC)  
Richard Coleman  
James Reed  
James Green

TEAM 5

Robert Riepe (TC)  
David Peters  
Charles Morgan  
Brian Papenthun  
Papenthien

TEAM 6

Fred Dull (TC)  
Forrest Irvin  
Raymond McManus  
Marvin Magill

Team 7

Quan Le (TC)  
Michael Harris  
Kenneth Bates  
Justin Newbury

SURVEY TEAM

Jeffrey McCanch (TC)  
James Steele  
Randy Sorenson



UXB International, Inc.

## OEW Operations Safety Inspection Log

Date: 17 Nov 94 Time: 1000 Contract Number: DACA87-93-D-002

Delivery Order Number: 0019 Location: TOOGLE Army Depot

Weather Conditions: 24°↓, 10+ mph (SW) winds, Cloudy, Light snow, 90% humidity.

I. Areas Inspected: (List by grid number, coordinates, or description)

Work Practices.

Team 1 Various Areas

Team 5 Area H

Team 2 Area E

Team 6 Area H

Team 3 Area H

Team 7 Area E

Team 4 Area F

Survey - Various Areas

II. Inspection Results: Very Satisfactory, Teams are very cautious of conditions, snow/cold are very wifty conditions. No discrepancies were noted.

III. Corrective Actions Recommended: None Required

IV. Reinspection Results: Not Applicable

V. Signatures:

[Signature]  
Site Safety Officer

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

[Signature]  
Sr. UXO Supervisor/Project Manager

UXB TEAM ROSTER

TEAM 1

Ronny Drain (TC)  
Darrel Davis  
Joe Bird  
Frank Cammanata

TEAM 2

Frank Santino (TC)  
Jerry Webb  
Walter Perry  
Tony Dodds

TEAM 3

Christopher Light (TC)  
Marreita Bates  
James Jackson  
Kevin McCarthy

TEAM 4

Ernest Kiehn (TC)  
Richard Coleman  
James Reed  
James Green

TEAM 5

Robert Riepe (TC)  
David Peters  
Charles Morgan  
Brian Papienthun  
Papenthien

TEAM 6

Fred Dull (TC)  
Forrest Irvin  
Raymond McMan  
Marvin Magill

Team 7

Quan Le (TC)  
Michael Rarris  
Kenneth Bates  
Justin Newbury

SURVEY TEAM

Jeffrey McCanch (TC)  
James Steele  
Randy Sorenson



UXB International, Inc.

## OEW Operations Safety Inspection Log

Date: 16 Nov 94 Time: 1100 Contract Number: DACAB7-93-D-002

Delivery Order Number: 0019 Location: TOOGLE Army Depot

Weather Conditions: 40° ↓ 23 (S) winds, 43% humidity, LIGHT Snow Cloudy.

### I. Areas Inspected: (List by grid number, coordinates, or description)

Work Perimeter.

Team 1 - AREA E

Team 5 - AREA E

Team 2 - AREA I

Team 6 - AREA E

Team 3 - AREA E

Team 7 - AREA F

Team 4 - AREA F

Survey - various areas

### II. Inspection Results: Satisfactory, No discrepancies noted.

Teams working in challenging conditions (snow/cold) are performing in an excellent manner.

### III. Corrective Actions Recommended: None required

### IV. Reinspection Results: Not Applicable

### V. Signatures:

[Signature]  
Site Safety Officer

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

[Signature]  
Sr. UXO Supervisor/Project Manager



UXB TEAM ROSTER

TEAM 1

Ronny Drain (TC)  
Darrel Davis  
Joe Bird  
~~Frank Campanata~~

TEAM 2

Frank Santino (TC)  
Jerry Webb  
Walter Perry  
Tony Dodds

TEAM 3

Christopher Light (TC)  
Marreita Bates  
James Jackson  
Kevin McCarthy

TEAM 4

Ernest Kiehn (TC)  
Richard Coleman  
James Reed  
James Green

TEAM 5

Robert Riepe (TC)  
David Peters  
Charles Morgan  
Brian Papienthun  
Papenthien

TEAM 6

Fred Dull (TC)  
Forrest Irvin  
Raymond McManus  
Marvin Magill

Team 7

Quan Le (TC)  
Michael Harris  
Kenneth Bates  
Justin Newbury

SURVEY TEAM

Jeffrey McCanch (TC)  
James Steele  
Randy Sorenson



UXB International, Inc.

## OEWS Operations Safety Inspection Log

Date: 15 Nov 94 Time: 1015/1130 Contract Number: DACA87-93-D-002

Delivery Order Number: 0019 Location: TOOGLE Army Depot

Weather Conditions: 22-43°F, 5-15 mph winds, Clear to P/Cloudy 85% humidity

I. Areas Inspected: (List by grid number, coordinates, or description)

All teams were observed in Area E, G, F and I during surface  
MAG 15mg and subsurface OEW removal operations.  
Colora Prantner of these teams were inspected  
See Attached Roster for personnel inspected

II. Inspection Results: All teams performed well no discrepancies  
were noted

III. Corrective Actions Recommended: None Required

IV. Reinspection Results: Not Applicable

V. Signatures:

[Signature]  
Site Safety Officer

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

[Signature]  
Sr. UXO Supervisor/Project Manager

UXB TEAM ROSTER

TEAM 1

Ronny Drain (TC)  
Darrel Davis  
Joe Bird  
~~Frank Comanata~~

TEAM 2

Frank Santino (TC)  
Jerry Webb  
Walter Perry  
Tony Dodds

TEAM 3

Christopher Light (TC)  
Marreita Bates  
James Jackson  
Kevin McCarthy

TEAM 4

Ernest Kiehn (TC)  
Richard Coleman  
James Reed  
James Green

TEAM 5

Robert Riepe (TC)  
David Peters  
Charles Morgan  
Brian Papienthun  
Papenthien

TEAM 6

Fred Dull (TC)  
Forrest Irvin  
Raymond McManUS  
Marvin Magill

Team 7

Quan Le (TC)  
Michael Harris  
Kenneth Bates  
Justin Newbury

SURVEY TEAM

Jeffrey McCanch (TC)  
James Steele  
Randy Sorenson



UXB International, Inc.

## OEW Operations Safety Inspection Log

Date: 14 Nov 94 Time: 1030/1400 Contract Number: DACA87-93-D-002

Delivery Order Number: 0019 Location: TOOGLE Army Depot

Weather Conditions: 30°F 10-15 mph winds (W), 30% humidity Clear.

I. Areas Inspected: (List by grid number, coordinates, or description)

WORK PLACES All teams (see attached roster)  
Various areas, Team retrain - surface & subsurface  
clearance sweeps

II. Inspection Results: Observed all teams during cold weather operations  
listed Tool discipline, Safety gear, all precautions being  
taken Observed competent & professional personnel No discrepancies  
noted

III. Corrective Actions Recommended: Not Required

IV. Reinspection Results: Not Applicable

V. Signatures:

[Signature]  
Site Safety Officer

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

[Signature]  
Sr. UXO Supervisor/Project Manager

UXB TEAM ROSTER

TEAM 1

Ronny Drain (TC)  
Darrel Davis  
Joe Bird  
~~Frank Campanata~~

TEAM 2

Frank Santino (TC)  
Jerry Webb  
Walter Perry  
Tony Dodds

TEAM 3

Christopher Light (TC)  
Marreita Bates  
James Jackson  
Kevin McCarthy

TEAM 4

Ernest Kiehn (TC)  
Richard Coleman  
James Reed  
James Green

TEAM 5

Robert Riepe (TC)  
David Peters  
Charles Morgan  
Brian ~~Papienthun~~  
Papenthien

TEAM 6

Fred Dull (TC)  
Forrest Irvin  
Raymond McManus  
Marvin Magill

Team 7

Quan Le (TC)  
Michael ~~Parris~~  
Kenneth Bates  
Justin Newbury

SURVEY TEAM

Jeffrey McCanch (TC)  
James Steele  
Randy Sorenson



UXB International, Inc.

# OEW Operations Safety Inspection Log

Date: 10 Nov 94 Time: 0900 Contract Number: DACA87-93-D-002

Delivery Order Number: 0019 Location: TOOGLE Army Depot

Weather Conditions: Partly Cloudy, SIF, Wind S - 18 to 25 mph, 38% Humidity

## I. Areas Inspected: (List by grid number, coordinates, or description)

WORK PRACTICES, GRID MAG & FLAG TEAMS 1, 4, 5 & 7  
GRID SETUP TEAMS 2 & 4.

II. Inspection Results: TEAMS using magnetometers per instructions,  
WARNING TAP, TAKING PRECAUTIONS AGAINST SLIP, TRIP &  
FALLS. NO DISCREPANCIES NOTED. ALL TEAM MAINTAINING  
SAFE SEPARATION DISTANCES. TEAM PERFORMANCE IS VERY  
GOOD.

III. Corrective Actions Recommended: None

IV. Reinspection Results: Not Required

## V. Signatures:

[Signature]  
Site Safety Officer

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

[Signature]  
Sr. UXO Supervisor/Project Manager

UXB TEAM ROSTER

TEAM 1

Ronny Drain (TC)  
Darrel Davis  
Joe Bird  
Frank Cammanata

TEAM 2

Frank Santino (TC)  
Jerry Webb  
Walter Perry  
Tony Dodds

TEAM 3

Christopher Light (TC)  
Marreita Bates  
James Jackson  
Kevin McCarthy

TEAM 4

Ernest Kiehn (TC)  
Richard Coleman  
James Reed  
James Green

TEAM 5

Robert Riepe (TC)  
David Peters  
Charles Morgan  
Brian Papienthun  
Papienthun

TEAM 6

Fred Dull (TC)  
Forrest Irvin  
Raymond McMan  
Marvin Magill

Team 7

Quan Le (TC)  
Michael Rarris  
Kenneth Bates  
Justin Newbury

SURVEY TEAM

Jeffrey McCanch (TC)  
James Steele  
Randy Sorenson



UXB International, Inc.

## OEW Operations Safety Inspection Log

Date: 9 Nov 94 Time: 1505 Contract Number: DACA87-93-D-002Delivery Order Number: 0019 Location: TOOELE Army DepotWeather Conditions: PARTLY cloudy 38°-50°F, 15 to 25 mph winds, Humidity 82°

## I. Areas Inspected: (List by grid number, coordinates, or description)

WORK PRACTICESTEAMS 1, 2, 3, 4, 5, 6 AND 7AREA G, E and HFOR PERSONNEL SEE ATTACHED TEAM ROSTER.

II. Inspection Results: OBSERVED TEAMS 1, 2, 3, 5 and 7 during  
SURFACE SWEEP, TEAMS 4 AND 6 TO GRIDING AREA AND 3  
HAULING SUPPLIES. ALL AREAS WERE SATISFACTORY. NO  
DISCREPANCIES NOTED

III. Corrective Actions Recommended: NONEIV. Reinspection Results: NOT APPLICABLE

## V. Signatures:

  
Site Safety Officer

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

  
Sr. UXO Supervisor/Project Manager



UXB TEAM ROSTER

TEAM 1

Ronny Drain (TC)  
Darrel Davis  
Joe Bird  
Frank Cammanata

TEAM 2

Frank Santino (TC)  
Jerry Webb  
Walter Perry  
Tony Dodds

TEAM 3

Christopher Light (TC)  
Marreita Bates  
James Jackson  
Kevin McCarthy

TEAM 4

Ernest Kiehn (TC)  
Richard Coleman  
James Reed  
James Green

TEAM 5

Robert Riepe (TC)  
David Peters  
Charles Morgan  
Brian Papienthun  
Papenthien

TEAM 6

Fred Dull (TC)  
Forrest Irvin  
Raymond McMan  
~~Marvin Magill~~

Team 7

Quan Le (TC)  
Michael Rarris  
Kenneth Bates  
Justin Newbury

SURVEY TEAM

Jeffrey McCanch (TC)  
James Steele  
Randy Sorenson



UXB International, Inc.

# OEW Operations Safety Inspection Log

Date: 30 Nov 94 Time: 0750 Contract Number: DACAB7-93-D-002

Delivery Order Number: 0019 Location: TOOGLE Army Depot

Weather Conditions: 33°, 66% humidity, 5-10 mph winds, Partly Cloudy

## I. Areas Inspected: (List by grid number, coordinates, or description)

Personal Protection

Met E/H

Test 4 & 3.

II. Inspection Results: Spot check of teams 4 & 5 was performed.  
All required PPE being used no discrepancies noted

III. Corrective Actions Recommended: None

IV. Reinspection Results: Not Applicable

## V. Signatures:

[Signature]  
Site Safety Officer

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

[Signature]  
Sr. UXO Supervisor/Project Manager

UXB TEAM ROSTER

TEAM 1

Ronny Brain (TC)  
Darrel Davis  
Joe Bird  
Frank Camanata

TEAM 2

Frank Santino (TC)  
Jerry Webb  
Walter Perry  
Tony Dodds

TEAM 3

Christopher Light (TC)  
Marreita Bates  
James Jackson  
Kevin McCarthy

TEAM 4

Ernest Kiehn (TC)  
Richard Coleman  
James Reed  
James Green

TEAM 5

Robert Riepe (TC)  
David Peters  
Charles Morgan  
Brian Papenthun  
Papenthien

TEAM 6

Fred Dull (TC)  
Forrest Irvin  
Raymond McMan  
Marvin Magill

Team 7

Quan Le (TC)  
Michael Rarris  
Kenneth Bates  
Justin Newbury

SURVEY TEAM

Jeffrey McCaneh (TC)  
James Steele  
Randy Sorenson



UXB International, Inc.

# OEW Operations Safety Inspection Log

Date: 29 Nov 94 Time: 0945 Contract Number: DACA87-93-D-002

Delivery Order Number: 0019 Location: TOOGLE Army Depot

Weather Conditions: 22°F, 88% humidity, SE winds 10-20 mph, Partly Cloudy.

## I. Areas Inspected: (List by grid number, coordinates, or description)

PERSONAL PROTECTION

TEAMS 4, 5 AREA H

II. Inspection Results: SATISFACTORY. A spot check of Team 4+S  
was conducted. No discrepancies noted.

III. Corrective Actions Recommended: None Required

IV. Reinspection Results: Not Applicable

## V. Signatures:

[Signature]  
Site Safety Officer

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

[Signature]  
Sr. UXO Supervisor/Project Manager

UXB TEAM ROSTER

TEAM 1

Ronny Drain (TC)  
Darrel Davis  
Joe Bird  
Frank Cammanata

TEAM 2

Frank Santino (TC)  
Jerry Webb  
Walter Perry  
Tony Dodds

TEAM 3

Christopher Light (TC)  
Marreita Bates  
James Jackson  
Kevin McCarthy

TEAM 4

Ernest Kiehn (TC)  
Richard Coleman  
James Reed  
James Green

TEAM 5

Robert Riepe (TC)  
David Peters  
Charles Morgan  
Brian Papienthun  
Papienthun

TEAM 6

Fred Dull (TC)  
Forrest Irvin  
Raymond McMan  
Marvin Magill

Team 7

Quan Le (TC)  
Michael Rarris  
Kenneth Bates  
Justin Newbury

SURVEY TEAM

Jeffrey McCanch (TC)  
James Steele  
Randy Sorenson



UXB International, Inc.

# OEW Operations Safety Inspection Log

Date: 28 Nov 94 Time: 1030/1100 Contract Number: DACA87-93-D-002

Delivery Order Number: 0019 Location: TOOLE Army Depot

Weather Conditions: 28°F, 16+ W. winds, Partly Cloudy, 75% humidity.

## I. Areas Inspected: (List by grid number, coordinates, or description)

Personal Protection

Teams 1 thru 7 AREA H

Security team AREA near E

II. Inspection Results: All personnel are wearing proper PPE no discrepancies noted. OLEND SAFETY Rep. on site noted no problems

III. Corrective Actions Recommended: None

IV. Reinspection Results: Not Applicable

## V. Signatures:

[Signature]  
Site Safety Officer

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

[Signature]  
Sr. UXO Supervisor/Project Manager

UXB TEAM ROSTER

TEAM 1

Ronny Drain (TC)  
~~Darrell Davis~~  
Joe Bird  
M Schaar

TEAM 2

Frank Santino (TC)  
Jerry Webb  
Walter Perry  
Tony Dodds

TEAM 3

Christopher Light (TC)  
Marvette Bates  
James Jackson  
Kevin McCarthy

TEAM 4

Ernest Kiehn (TC)  
Richard Coleman  
James Reed  
James Green

TEAM 5

Robert Riepe (TC)  
David Peters  
Charles Morgan  
Brian Papenthien

TEAM 6

Fred Dull (TC)  
Forrest Irvin  
Raymond McManus  
Marvin Magill

TEAM 7

Quan Le (TC)  
Michael Parris  
Kenneth Bates  
Justin Newbury

SURVEY TEAM

Jeffrey McCanch (TC)  
James Steele  
Randy Sorenson



UXB International, Inc.

# OEWS Operations Safety Inspection Log

Date: 23 Nov 94 Time: 1330 Contract Number: DACA87-93-D-002

Delivery Order Number: 0019 Location: TOOLE Army Depot

Weather Conditions: 28°F, Sunny, 10-12 mph wind from SE, 96% humidity.

## I. Areas Inspected: (List by grid number, coordinates, or description)

Open area WEST OF MARS F&E to Highway Personal Protection  
All teams to include Survey team See Attached Report.

II. Inspection Results: Satisfactory, no discrepancies noted.

III. Corrective Actions Recommended: Not Required

IV. Reinspection Results: Not Applicable

## V. Signatures:

[Signature]  
Site Safety Officer

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

[Signature]  
Sr. UXO Supervisor/Project Manager



UXB TEAM ROSTER

TEAM 1

Ronny Drain (TC)  
Darrell Davis  
Joe Bird  
m Schaap

TEAM 2

Frank Santino (TC)  
Jerry Webb  
Walter Perry  
Tony Dodds

TEAM 3

Christopher Light (TC)  
Marvette Bates  
James Jackson  
Kevin McCarthy

TEAM 4

Ernest Kiehn (TC)  
Richard Coleman  
James Reed  
James Green

TEAM 5

Robert Riepe (TC)  
David Peters  
Charles Morgan  
Brian Papenthien

TEAM 6

Fred Dull (TC)  
Forrest Irvin  
Raymond McManus  
Marvin Magill

TEAM 7

Quan Le (TC)  
Michael Parris  
Kenneth Bates  
Justin Newbury

SURVEY TEAM

Jeffrey McCanch (TC)  
James Steele  
Randy Sorenson



UXB International, Inc.

# OEW Operations Safety Inspection Log

Date: 22 Nov 94 Time: 1400 Contract Number: DACA87-93-D-002

Delivery Order Number: 0019 Location: TOOGLE Army Depot

Weather Conditions: 30°F, Windy SE 9 mph, 94% humidity, Sunny; Clear

## I. Areas Inspected: (List by grid number, coordinates, or description)

Personal Protection.  
Team 1 - Ammunition transfer point  
Team 2, 3, 4, 5, 6, and 7 near H  
Survey corner of H

II. Inspection Results: All personnel observed were in compliance  
with PPE require, no discrepancies noted

III. Corrective Actions Recommended: Not Required

IV. Reinspection Results: Not Applicable

## V. Signatures:

[Signature]  
Site Safety Officer

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

[Signature]  
Sr. UXO Supervisor/Project Manager

UXB TEAM ROSTER

TEAM 1

Ronny Drain (TC)  
Darrell Davis  
Joe Bird  
SCHAAP

TEAM 2

Frank Santino (TC)  
Jerry Webb  
Walter Perry  
Tony Dodds

TEAM 3

Christopher Light (TC)  
Marvette Bates  
James Jackson  
Kevin McCarthy

TEAM 4

Ernest Kiehn (TC)  
Richard Coleman  
James Reed  
James Green

TEAM 5

Robert Riepe (TC)  
David Peters  
Charles Morgan  
Brian Papenthien

TEAM 6

Fred Dull (TC)  
Forrest Irvin  
Raymond McManus  
Marvin Magill

TEAM 7

Quan Le (TC)  
Michael Parris  
Kenneth Bates  
Justin Newbury

SURVEY TEAM

Jeffrey McCanch (TC)  
James Steele  
Randy Sorenson



UXB International, Inc.

# OEWS Operations Safety Inspection Log

Date: 21 Nov 94 Time: 0900-1600 Contract Number: DACA87-93-D-002

Delivery Order Number: 0019 Location: TOOLE Army Depot

Weather Conditions: Light snow, 28°F, 6mph winds, 98% humidity.

## I. Areas Inspected: (List by grid number, coordinates, or description)

Area F Team 1

See Attached Roster

Area H Teams 3, 4, 5, 6, 7 and survey.

Area E Team 2

II. Inspection Results: All personnel observed were wearing required PPE.  
No discrepancies noted.

III. Corrective Actions Recommended: Not Required

IV. Reinspection Results: Not Applicable

## V. Signatures:

[Signature]  
Site Safety Officer

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

[Signature]  
Sr. UXO Supervisor/Project Manager

UXB TEAM ROSTER

TEAM 1

Ronny Drain (TC)  
Darrell Davis  
Joe Bird  
Schaaf

TEAM 2

Frank Santino (TC)  
Jerry Webb  
Walter Perry  
Tony Dodds

TEAM 3

Christopher Light (TC)  
Marvette Bates  
James Jackson  
Kevin McCarthy

TEAM 4

Ernest Kiehn (TC)  
Richard Coleman  
James Reed  
James Green

TEAM 5

Robert Riepe (TC)  
David Peters  
Charles Morgan  
Brian Papenthien

TEAM 6

Fred Dull (TC)  
Forrest Irvin  
Raymond McManus  
Marvin Magill

TEAM 7

Quan Le (TC)  
Michael Parris  
Kenneth Bates  
Justin Newbury

SURVEY TEAM

Jeffrey McCanch (TC)  
James Steele  
Randy Sorenson



UXB International, Inc.

# OEW Operations Safety Inspection Log

Date: 17 Nov 94 Time: 0930 Contract Number: DACA87-93-D-002

Delivery Order Number: 0019 Location: TOOLE Army Depot

Weather Conditions: 24°F ↓ 10mph (sw) winds, Cloudy 78% Humidity

## I. Areas Inspected: (List by grid number, coordinates, or description)

<u>PERSONAL PROTECTION -</u>	
<u>Team 1 E Area</u>	<u>Team 5 E Area</u>
<u>Team 2 F Area</u>	<u>Team 6 E Area</u>
<u>Team 3 E Area</u>	<u>Team 7 E Area</u>
<u>Team 4 F Area</u>	<u>Survey - various Areas</u>
	<u>See annexes for Personnel</u>

II. Inspection Results: Satisfactory - Complying with all PPE Requirements. No discrepancies noted

III. Corrective Actions Recommended: Not Required

IV. Reinspection Results: Not Applicable

## V. Signatures:

[Signature]  
Site Safety Officer

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

[Signature]  
Sr. UXO Supervisor/Project Manager

UXB TEAM ROSTER

TEAM 1

Ronny Drain (TC)  
Darrell Davis  
Joe Bird  
C.M. SchAAF

TEAM 2

Frank Santino (TC)  
Jerry Webb  
Walter Perry  
Tony Dodds

TEAM 3

Christopher Light (TC)  
Marvette Bates  
James Jackson  
Kevin McCarthy

TEAM 4

Ernest Kiehn (TC)  
Richard Coleman  
James Reed  
James Green

TEAM 5

Robert Riepe (TC)  
David Peters  
Charles Morgan  
Brian Papenthien

TEAM 6

Fred Dull (TC)  
Forrest Irvin  
Raymond McManus  
Marvin Magill

TEAM 7

Quan Le (TC)  
Michael Parris  
Kenneth Bates  
Justin Newbury

SURVEY TEAM

Jeffrey McCanch (TC)  
James Steele  
Randy Sorenson



UXB International, Inc.

# OEW Operations Safety Inspection Log

Date: 16 Nov 94 Time: 0830/1400 Contract Number: DACA87-93-D-002

Delivery Order Number: 0019 Location: TOOGLE Army Depot

Weather Conditions: 42° ↓ 23mps (S) winds 93% humidity LIGHT snow, Cloudy.

## I. Areas Inspected: (List by grid number, coordinates, or description)

PERSONNEL PROTECTION

Items 1 thru 7 various ARSs, F, E, G & I

Survey Crew - various areas.

See Attached Roster for personnel involved

II. Inspection Results: SATISFACTORY. All personnel are wearing  
proper PPG. No discrepancies were noted.

III. Corrective Actions Recommended: NONE

IV. Reinspection Results: Not Applicable

## V. Signatures:

[Signature]  
Site Safety Officer

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

[Signature]  
Sr. UXO Supervisor/Project Manager



UXB TEAM ROSTER

TEAM 1

Ronny Drain (TC)  
Darrell Davis  
Joe Bird

TEAM 2

Frank Santino (TC)  
Jerry Webb  
Walter Perry  
Tony Dodds

TEAM 3

Christopher Light (TC)  
Marvette Bates  
James Jackson  
Kevin McCarthy

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James Reed  
James Green

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David Peters  
Charles Morgan  
Brian Papenthien

TEAM 6

Fred Dull (TC)  
Forrest Irvin  
Raymond McManus  
Marvin Magill

TEAM 7

Quan Le (TC)  
Michael Parris  
Kenneth Bates  
Justin Newbury

SURVEY TEAM

Jeffrey McCanch (TC)  
James Steele  
Randy Sorenson



UXB International, Inc.

## OEW Operations Safety Inspection Log

Date: 15 Nov 94 Time: 0830/1400 Contract Number: DACA87-93-D-002

Delivery Order Number: 0019 Location: TOOGLE Army Depot

Weather Conditions: 22-40°F, SW winds 5-15 mph, 85% Humidity, Clear to P/Cloudy

### I. Areas Inspected: (List by grid number, coordinates, or description)

#### Personnel Protection

Trams - 1 thru 7 were observed throughout the day while performing mag + fly and OEW subsurface removal operations  
See annexes below for personnel involved +  
Survey Crew

II. Inspection Results: No discrepancies noted. All required PPE  
is in use. Proper clothing for cold conditions being provided  
on site is also in use.

III. Corrective Actions Recommended: Not Required

IV. Reinspection Results: Not applicable

### V. Signatures:

[Signature]  
Site Safety Officer

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

[Signature]  
Sr. UXO Supervisor/Project Manager

UXB TEAM ROSTER

TEAM 1

Ronny Drain (TC)  
Darrell Davis  
Joe Bird

TEAM 2

Frank Santino (TC)  
Jerry Webb  
Walter Perry  
Tony Dodds

TEAM 3

Christopher Light (TC)  
Marvette Bates  
James Jackson  
Kevin McCarthy

TEAM 4

Ernest Kiehn (TC)  
Richard Coleman  
James Reed  
James Green

TEAM 5

Robert Riepe (TC)  
David Peters  
Charles Morgan  
Brian Papenthien

TEAM 6

Fred Dull (TC)  
Forrest Irvin  
Raymond McManus  
Marvin Magill

TEAM 7

Quan Le (TC)  
Michael Parris  
Kenneth Bates  
Justin Newbury

SURVEY TEAM

Jeffrey McCanch (TC)  
James Steele  
Randy Sorenson



UXB International, Inc.

# OEWS Operations Safety Inspection Log

Date: 14 Nov 94 Time: 1400 Contract Number: DACA87-93-D-002

Delivery Order Number: 0019 Location: TOOLE Army Depot

Weather Conditions: 34°F Clear, 10-15 mph W. Windy 38%

## I. Areas Inspected: (List by grid number, coordinates, or description)

Personal Protection - see ATTACHED ROSTER.

All teams - various areas of operation.

II. Inspection Results: All personnel were wearing all required protective equipment, multi-layered clothing, boot gaiters, and head gear is being worn to protect against the cold. No discrepancies were noted.

III. Corrective Actions Recommended: None.

IV. Reinspection Results: Not Required

## V. Signatures:

[Signature]  
Site Safety Officer

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

[Signature]  
Sr. UXO Supervisor/Project Manager

UXB TEAM ROSTER

TEAM 1

Ronny Drain (TC)  
Darrell Davis  
Joe Bird

TEAM 2

Frank Santino (TC)  
Jerry Webb  
Walter Perry  
Tony Dodds

TEAM 3

Christopher Light (TC)  
Marvette Bates  
James Jackson  
Kevin McCarthy

TEAM 4

Ernest Kiehn (TC)  
Richard Coleman  
James Reed  
James Green

TEAM 5

Robert Riepe (TC)  
David Peters  
Charles Morgan  
Brian Papenthien

TEAM 6

Fred Dull (TC)  
Forrest Irvin  
Raymond McManus  
Marvin Magill

TEAM 7

Quan Le (TC)  
Michael Parris  
Kenneth Bates  
Justin Newbury

SURVEY TEAM

Jeffrey McCanch (TC)  
James Steele  
Randy Sorenson



UXB International, Inc.

# OEWS Operations Safety Inspection Log

Date: 10 Nov 94 Time: 0930 Contract Number: DACA87-93-D-002

Delivery Order Number: 0019 Location: TOOGLE Army Depot

Weather Conditions: PARTLY Cloudy, S<sup>10</sup>R, S.W. winds 18-35mph, 32% Humidity

## I. Areas Inspected: (List by grid number, coordinates, or description)

Personal Protection

TEAMS 1, 2, 4, 5, 6, and 7 AREAS G, E AND F Surface sweeps  
and Grid layout Area H See ATTACHED ROSTER FOR  
Personnel inspected

II. Inspection Results: All personnel wearing required protective  
gear. Well dressed for cold weather operations. No  
discrepancies noted.

III. Corrective Actions Recommended: None

IV. Reinspection Results: Not Required

## V. Signatures:

[Signature]  
Site Safety Officer

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

[Signature]  
Sr. UXO Supervisor/Project Manager

UXB TEAM ROSTER

TEAM 1

Ronny Drain (TC)  
Darrell Davis  
Joe Bird

TEAM 2

Frank Santino (TC)  
Jerry Webb  
Walter Perry  
Tony Dodds

TEAM 3

Christopher Light (TC)  
Marvette Bates  
James Jackson  
Kevin McCarthy

TEAM 4

Ernest Kiehn (TC)  
Richard Coleman  
James Reed  
James Green

TEAM 5

Robert Riepe (TC)  
David Peters  
Charles Morgan  
Brian Papenthien

TEAM 6

Fred Dull (TC)  
Forrest Irvin  
Raymond McManus  
Marvin Magill

TEAM 7

Quan Le (TC)  
Michael Parris  
Kenneth Bates  
Justin Newbury

SURVEY TEAM

Jeffrey McCanch (TC)  
James Steele  
Randy Sorenson



UXB International, Inc.

## OEW Operations Safety Inspection Log

Date: 9 Nov 94 Time: 0735 Contract Number: DACAB7-93-D-002Delivery Order Number: 0019 Location: TOOELE ARMY DEPOTWeather Conditions: PARTLY CLOUDY 38-50°, 15-25 mph winds Humidity 82°

## I. Areas Inspected: (List by grid number, coordinates, or description)

AREA G PERSONAL PROTECTION.TEAMS 1, 2, 3, 4, 5, 6 and 7.SEE ATTACHED ROSTER FOR PERSONNEL.

II. Inspection Results: OBSERVED PERSONNEL DURING MORNING TAILGATE MEETING AND SUBSEQUENT CHECK OUT PROCEDURES ALL PERSONNEL ARE WEARING REQUIRED PERSONEL PROTECTION.

III. Corrective Actions Recommended: NONE REQUIRED

IV. Reinspection Results: NOT APPLICABLE

## V. Signatures:

[Signature]  
Site Safety Officer

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

[Signature]  
Sr. UXO Supervisor/Project Manager



UXB TEAM ROSTER

TEAM 1

Ronny Drain (TC)  
Darrel Davis  
Joe Bird  
Frank Cammanata

TEAM 2

Frank Santino (TC)  
Jerry Webb  
Walter Perry  
Tony Dodds

TEAM 3

Christopher Light (TC)  
Marreita Bates  
James Jackson  
Kevin McCarthy

TEAM 4

Ernest Kiehn (TC)  
Richard Coleman  
James Reed  
James Green

TEAM 5

Robert Riepe (TC)  
David Peters  
Charles Morgan  
Brian Papienthun  
Papenthien

TEAM 6

Fred Dull (TC)  
Forrest Irvin  
Raymond McMan  
~~Marvin Magill~~

Team 7

Quan Le (TC)  
Michael Rarris  
Kenneth Bates  
Justin Newbury

SURVEY TEAM

Jeffrey McCanch (TC)  
James Steele  
Randy Sorenson



UXB International, Inc.

# OEW Operations Safety Inspection Log

Date: 30 Nov 94 Time: 1345 Contract Number: DACA87-93-D-002

Delivery Order Number: 0019 Location: TOOGLE Army Depot

Weather Conditions: 40°F, 10+ mph winds, 60% humidity, partly cloudy.

## I. Areas Inspected: (List by grid number, coordinates, or description)

TRANSPORTATION OF EXPLOSIVES

TEAM 1 DRAIN, SAGAN: Bird

## II. Inspection Results: No discrepancies noted

## III. Corrective Actions Recommended: None

## IV. Reinspection Results: Not Applicable

## V. Signatures:

[Signature]  
Site Safety Officer

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

[Signature]  
Sr. UXO Supervisor/Project Manager



UXB International, Inc.

# OEW Operations Safety Inspection Log

Date: 29 Nov 94 Time: 1400 Contract Number: DACA87-93-D-002

Delivery Order Number: 0019 Location: TOOGLE Army Depot

Weather Conditions: 22° F, 88% humidity, Partly Cloudy, 20-30 SE winds,

## I. Areas Inspected: (List by grid number, coordinates, or description)

TRANSBRIER OF EXPLOSIVES (OEWS)

Team 1 - R. DRAIN M. SCHAFF, J. Bird.

## II. Inspection Results: No discrepancies noted.

## III. Corrective Actions Recommended: None Required

## IV. Reinspection Results: Not Applicable

## V. Signatures:

[Signature]  
Site Safety Officer

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

[Signature]  
Sr. UXO Supervisor/Project Manager



UXB International, Inc.

# OEW Operations Safety Inspection Log

Date: 28 Nov 94 Time: 1400 Contract Number: DACAB7-93-D-002

Delivery Order Number: 0019 Location: TOOGLE Army Depot

Weather Conditions: Partly Cloudy 28°F 16 mph W. Winds 75% humidity.

## I. Areas Inspected: (List by grid number, coordinates, or description)

TRANSPORTATION OF Explosives.

Team 1 - R. DRAKE, J. Dileo : H. Schaefer

II. Inspection Results: Observed team One pickup/deliver OEW from site and transport to Disposal site Gate. No discrepancies noted. CATPO safety on site observed no discrepancies.

III. Corrective Actions Recommended: None Required

IV. Reinspection Results: Not applicable

## V. Signatures:

[Signature]  
Site Safety Officer

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

[Signature]  
Sr. UXO Supervisor/Project Manager



UXB International, Inc.

# OEWS Operations Safety Inspection Log

Date: 22 Nov 94 Time: 1400 Contract Number: DACA87-93-D-002

Delivery Order Number: 0019 Location: TOOGLE Army Depot

Weather Conditions: 30°F, Clear, Wind 9 mph, 94% humidity, Sky: Clear

## I. Areas Inspected: (List by grid number, coordinates, or description)

TRANSPORTATION OF EXPOSURES

TEAM 1 R. DEAN, M. SCHAAF, 1 JOE BIRD

## II. Inspection Results: No discrepancies noted.

NOTE CEHWD QA/SAPRY observed operations, no discrepancies noted

## III. Corrective Actions Recommended: Not Required

## IV. Reinspection Results: Not Applicable

## V. Signatures:

[Signature]  
Site Safety Officer

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

[Signature]  
Sr. UXO Supervisor/Project Manager



UXB International, Inc.

# OEW Operations Safety Inspection Log

Date: 21 Nov 94 Time: 1430 Contract Number: DACA87-93-D-002

Delivery Order Number: 0019 Location: TOOLE Army Depot

Weather Conditions: Light snow, 6 mph E winds, 28°

## I. Areas Inspected: (List by grid number, coordinates, or description)

TRANSPORTATION OF EXPLOSIVES

Item 1 see attached RAMPOL

II. Inspection Results: No discrepancies noted / Safety QC inspection  
performed in conjunction with each other - Team performed all  
required tasks

III. Corrective Actions Recommended: None Required.

IV. Reinspection Results: Not Applicable

## V. Signatures:

[Signature]  
Site Safety Officer

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

[Signature]  
Sr. UXO Supervisor/Project Manager

UXB TEAM ROSTER

TEAM 1

Ronny Drain (TC)  
Darrell Davis  
Joe Bird  
MC SCHAAP

TEAM 2

~~Frank Santino~~ (TC)  
Jerry Webb  
Walter Perry  
Tony Dodds

TEAM 3

~~Christopher Light~~ (TC)  
Marvette Bates  
James Jackson  
Kevin McCarthy

TEAM 4

~~Ernest Kiehn~~ (TC)  
Richard Coleman  
James Reed  
James Green

TEAM 5

~~Robert Riepe~~ (TC)  
David Peters  
Charles Morgan  
Brian Papenthien

TEAM 6

~~Fred Dull~~ (TC)  
Forrest Irvin  
Raymond McManus  
Marvin Magill

TEAM 7

Quan Le (TC)  
Michael Parris  
Kenneth Bates  
Justin Newbury

SURVEY TEAM

Jeffrey McCanch (TC)  
James Steele  
Randy Sorenson



UXB International, Inc.

# OEW Operations Safety Inspection Log

Date: 17 Nov 94 Time: 0415 Contract Number: DACA87-93-D-002

Delivery Order Number: 0019 Location: TOOGLE Army Depot

Weather Conditions: 24°F LIGHT SNOW, 10 mph (W) wind, 80% humidity, Overcast,

## I. Areas Inspected: (List by grid number, coordinates, or description)

TRANSPORTATION EXERCISES, (OEWS) to TEAD personnel.

Team 1

## II. Inspection Results: Satisfactory, No discrepancies noted.

Vehicle check-out and required safety gear OK.

Personnel trained and speed limits observed

## III. Corrective Actions Recommended: None Required

## IV. Reinspection Results: Not Applicable

## V. Signatures:

Site Safety Officer

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

Daniel R. Dyer

Sr. UXO Supervisor/Project Manager





UXB International, Inc.

## OEW Operations Safety Inspection Log

Date: 15 Oct 94 Time: 1200 Contract Number: DAC987-93-D-002

Delivery Order Number: 0019 Location: Tooele Army Depot

Weather Conditions: 22-40°F, S-wind S-15mph, 85% Humidity Clear to P/Cloudy

I. Areas Inspected: (List by grid number, coordinates, or description)

Transportation of OEW To TEAD Personnel.

II. Inspection Results: Satisfactory All OEW was placed in wooden boxes in a layer of dry gravel. Boxes were on back of a covered pickup. No discrepancies noted. All safety equipment and check-out logs for vehicle complied with

III. Corrective Actions Recommended: None

IV. Reinspection Results: Not applicable

V. Signatures:

Site Safety Officer

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

Daniel P. Dyer  
Sr. UXO Supervisor/Project Manager



UXB International, Inc.

# OEW Operations Safety Inspection Log

Date: 30 Nov 94 Time: 1100 Contract Number: DACAB7-93-D-002

Delivery Order Number: 0019 Location: TOOGLE Army Depot

Weather Conditions: 40°, mostly cloudy, 10 mph W. to 66° humidity.

## I. Areas Inspected: (List by grid number, coordinates, or description)

SUBSURFACE

All items near H1E.

## II. Inspection Results: No discrepancies noted. All items were intact.

## III. Corrective Actions Recommended: None

## IV. Reinspection Results: Not required.

## V. Signatures:

[Signature]  
Site Safety Officer

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

[Signature]  
Sr. UXO Supervisor/Project Manager

UXB TEAM ROSTER

TEAM 1

Ronny Drain (TC)  
Darrel Davis  
Joe Bird  
Frank Carmanata

TEAM 2

Frank Santino (TC)  
Jerry Webb  
Walter Perry  
Tony Dodds

TEAM 3

Christopher Light (TC)  
Marreita Bates  
James Jackson  
Kevin McCarthy

TEAM 4

Ernest Kiehn (TC)  
Richard Coleman  
James Reed  
James Green

TEAM 5

Robert Riepe (TC)  
David Peters  
Charles Morgan  
Brian Papienthun  
Papenthien

TEAM 6

Fred Dull (TC)  
Forrest Irvin  
Raymond McMan  
Marvin Magill

Team 7

Quan Le (TC)  
Michael Rarris  
Kenneth Bates  
Justin Newbury

SURVEY TEAM

Jeffrey McCanch (TC)  
James Steele  
Randy Sorenson



UXB International, Inc.

## OEW Operations Safety Inspection Log

Date: 29 Nov 94 Time: 1000 Contract Number: DAC87-93-D-002

Delivery Order Number: 0019 Location: TOOGLE Army Depot

Weather Conditions: 22°F, 88% humidity, Partly Cloudy, 10-20 mph SW winds.

I. Areas Inspected: (List by grid number, coordinates, or description)

Subsurface

Teams 1-2-4-5-6 see attached Roster

Area H. Various Grids.

II. Inspection Results: All teams rated satisfactory, no discrepancies noted. CE and Sargent on site, observed team operations and had no discrepancies reported.

III. Corrective Actions Recommended: Not Required

IV. Reinspection Results: Not Applicable

V. Signatures:

[Signature]  
Site Safety Officer

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

[Signature]  
Sr. UXO Supervisor/Project Manager

UXB TEAM ROSTER

TEAM 1

Ronny Drain (TC)  
Darrel Davis  
Joe Bird  
Frank Carmanata

TEAM 2

Frank Santino (TC)  
Jerry Webb  
Walter Perry  
Tony Dodds

TEAM 3

Christopher Light (TC)  
Marreita Bates  
James Jackson  
Kevin McCarthy

TEAM 4

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Richard Coleman  
James Reed  
James Green

TEAM 5

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David Peters  
Charles Morgan  
Brian Papienthun  
Papienthun

TEAM 6

Fred Dull (TC)  
Forrest Irvin  
Raymond McMan  
Marvin Magill

Team 7

Quan Le (TC)  
Michael Rarris  
Kenneth Bates  
Justin Newbury

SURVEY TEAM

Jeffrey McCanch (TC)  
James Steele  
Randy Sorenson



UXB International, Inc.

## OEW Operations Safety Inspection Log

Date: 28 Nov 94 Time: 1900 Contract Number: DACA87-93-D-002

Delivery Order Number: 0019 Location: TOOGLE Army Depot

Weather Conditions: 16+ mph wind from West, P/Cbldy, 28°, 75% humidity

I. Areas Inspected: (List by grid number, coordinates, or description)

Subsurface Teams 1, 2, 3, & 4 near H. Union Groves

II. Inspection Results: All teams noted satisfactory, no discrepancies noted. OEHND observed these operations and had no problems noted

III. Corrective Actions Recommended: Not Required

IV. Reinspection Results: Not Applicable

V. Signatures:

[Signature]  
Site Safety Officer

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

[Signature]  
Sr. UXO Supervisor/Project Manager

UXB TEAM ROSTER

TEAM 1

Ronny Drain (TC)  
~~Darrel Davis~~  
Joe Bird  
~~Frank Camanata~~  
Schaaf

TEAM 2

Frank Santino (TC)  
Jerry Webb  
Walter Perry  
Tony Dodds

TEAM 3

Christopher Light (TC)  
Marreita Bates  
James Jackson  
Kevin McCarthy

TEAM 4

Ernest Kiehn (TC)  
Richard Coleman  
James Reed  
James Green

TEAM 5

~~Robert Riepe~~ (TC)  
David Peters  
Charles Morgan  
~~Brian Papienthun~~  
Papenthien

TEAM 6

~~Fred Dull~~ (TC)  
Forrest Irvin  
Raymond McMan  
~~Marvin Magill~~

Team 7

~~Quan Le~~ (TC)  
Michael Rarris  
Kenneth Bates  
~~Justin Newbury~~

SURVEY TEAM

Jeffrey McCanch (TC)  
James Steele  
Randy Sorenson



UXB International, Inc.

# OEW Operations Safety Inspection Log

Date: 22 Nov 94 Time: 1000-1100 Contract Number: DACA87-93-D-002

Delivery Order Number: 0019 Location: TOOLE Army Depot

Weather Conditions: 130 F, 94% humidity, SE winds @ 9 mph, Clear.

## I. Areas Inspected: (List by grid number, coordinates, or description)

Subsurface Clearance

Team 1 - F AREA

See Attached ROSTER

Team 2 - E AREA

Team 3, 4, 5 + 6 - H AREA

## II. Inspection Results:

No discrepancies noted, all teams performing well and observing all safety requirements. Nore CEHRO observed all teams performing operations - no discrepancies were noted

## III. Corrective Actions Recommended:

Not Required

## IV. Reinspection Results:

Not Applicable

## V. Signatures:

[Signature]  
Site Safety Officer

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

[Signature]  
Sr. UXO Supervisor/Project Manager



UXB TEAM ROSTER

TEAM 1

Ronny Drain (TC)  
Darrel Davis  
Joe Bird  
Frank Carmanata

TEAM 2

Frank Santino (TC)  
Jerry Webb  
Walter Perry  
Tony Dodds

TEAM 3

Christopher Light (TC)  
Marreita Bates  
James Jackson  
Kevin McCarthy

TEAM 4

Ernest Kiehn (TC)  
Richard Coleman  
James Reed  
James Green

TEAM 5

Robert Riepe (TC)  
David Peters  
Charles Morgan  
Brian Papienthun  
Papenthien

TEAM 6

Fred Dull (TC)  
Forrest Irvin  
Raymond McMan  
Marvin Magill

Team 7

Quan Le (TC)  
Michael Rarris  
~~Kenneth Bates~~  
Justin Newbury

~~SURVEY TEAM~~

~~Jeffrey McCanch (TC)~~  
~~James Steele~~  
~~Randy Sorenson~~



UXB International, Inc.

# OEW Operations Safety Inspection Log

Date: 21 Nov 94 Time: 0930 Contract Number: DACA87-93-D-002

Delivery Order Number: 0019 Location: TOOGLE Army Depot

Weather Conditions: Light Snow, 23°F, 6mph wind (E), 95% Humidity

## I. Areas Inspected: (List by grid number, coordinates, or description)

Area F Team 1 See attached notes

Area E Team 2

II. Inspection Results: No discrepancies noted. Both teams performing well in cold weather conditions. Not CEHMO QA/ARTM on site - no discrepancies noted.

III. Corrective Actions Recommended: None Required

IV. Reinspection Results: Not Applicable

## V. Signatures:

[Signature]  
Site Safety Officer

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

[Signature]  
Sr. UXO Supervisor/Project Manager

UXB TEAM ROSTER

AM 1

Ronny Drain (TC)  
Darrel Davis  
Joe Bird  
~~Frank Cammanata~~  
Schaar

TEAM 2

Frank Santino (TC)  
Jerry Webb  
Walter Perry  
Tony Dodds

TEAM 3

~~Christopher Light~~ (TC)  
~~Marreita Bates~~  
~~James Jackson~~  
~~Kevin McCarthy~~

TEAM 4

~~Ernest Kiehn~~ (TC)  
~~Richard Coleman~~  
~~James Reed~~  
~~James Green~~

TEAM 5

~~Robert Riepe~~ (TC)  
~~David Peters~~  
~~Charles Morgan~~  
~~Brian Papienthun~~  
Papenthien

TEAM 6

~~Fred Dull~~ (TC)  
~~Forrest Irvin~~  
~~Raymond McManis~~  
~~Marvin Magill~~

Team 7

~~Quan Le~~ (TC)  
~~Michael Harris~~  
~~Kenneth Bates~~  
~~Justin Newbury~~

SURVEY TEAM

~~Jeffrey McCanch~~ (TC)  
~~James Steele~~  
Randy Sorenson



UXB International, Inc.

# OEWS Operations Safety Inspection Log

Date: 17 Nov 94 Time: 0910 Contract Number: DACA87-93-D-002

Delivery Order Number: 0019 Location: TOOGLE Army Depot

Weather Conditions: 24°, Cloudy, 10 mph SW wind, 70% humidity

## I. Areas Inspected: (List by grid number, coordinates, or description)

Team 1 G AREA Team 6 E AREA SUB SURFACE

Team 2 I AREA

Team 3 F AREA

Team 4 E AREA

Team 5 E AREA

II. Inspection Results: Satisfactory. No discrepancies noted. Teams performing well in very cold conditions. All required equipment checks and tool maintenance being accomplished.

III. Corrective Actions Recommended: None

IV. Reinspection Results: Not Applicable

## V. Signatures:

[Signature]  
Site Safety Officer

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

[Signature]  
Sr. UXO Supervisor/Project Manager

UXB TEAM ROSTER

TEAM 1

Ronny Drain (TC)  
Darrel Davis  
Joe Bird  
~~Frank Camanata~~

C M. SCHAFF

TEAM 4

Ernest Kiehn (TC)  
Richard Coleman  
James Reed  
James Green

Team 7

~~Quan Le (TC)~~  
Michael ~~Parris~~  
~~Kenneth Bates~~  
~~Justin Newbury~~

TEAM 2

Frank Santino (TC)  
Jerry Webb  
Walter Perry  
Tony Dodds

TEAM 5

Robert Riepe (TC)  
David Peters  
Charles Morgan  
Brian ~~Papienthun~~  
Papenthien

SURVEY TEAM

~~Jeffrey McCann (TC)~~  
~~James Steele~~  
~~Randy Sorenson~~

TEAM 3

Christopher Light (TC)  
Marreita Bates  
James Jackson  
Kevin McCarthy

TEAM 6

Fred Dull (TC)  
Forrest Irvin  
Raymond McManus  
Marvin Magill



UXB International, Inc.

# OEW Operations Safety Inspection Log

Date: 16 Nov 94 Time: 0900/AD Contract Number: DACA87-93-D-002

Delivery Order Number: 0019 Location: TOOGLE Army Depot

Weather Conditions: Plc 43° ↓ Wind 25 mph (S) 43% humidity. Light Snow

## I. Areas Inspected: (List by grid number, coordinates, or description)

Team 1 G AREA Team 6 E AREA Subsurface.  
Team 2 I AREA ~~Team 7 E AREA~~  
Team 3 E AREA  
Team 4 E AREA  
Team 5 E AREA See Attached Roster for personnel inspected

II. Inspection Results: Satisfactory, no discrepancies noted. Tool  
disciplined, equipment checked out and digging techniques are all  
being accomplished in a professional manner.

III. Corrective Actions Recommended: None Required

IV. Reinspection Results: Not Applicable

## V. Signatures:

[Signature]  
Site Safety Officer

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

[Signature]  
Sr. UXO Supervisor/Project Manager

UXB TEAM ROSTER

TEAM 1

Ronny Drain (TC)  
Darrel Davis  
Joe Bird  
~~Frank Cammanata~~  
C.H. SU

TEAM 2

Frank Santino (TC)  
Jerry Webb  
Walter Perry  
Tony Dodds

TEAM 3

Christopher Light (TC)  
Marreita Bates  
James Jackson  
Kevin McCarthy

TEAM 4

Ernest Kiehn (TC)  
Richard Coleman  
James Reed  
James Green

TEAM 5

Robert Riepe (TC)  
David Peters  
Charles Morgan  
Brian Papienthun  
Papenthien

TEAM 6

Fred Dull (TC)  
Forrest Irvin  
Raymond McManus  
Marvin Magill

Team 7

Quan-Le (TC)  
Michael Rarris  
Kenneth Bates  
Justin Newbury

SURVEY TEAM

~~Jeffrey McCanch (TC)~~  
~~James Steele~~  
~~Randy Sorenson~~



UXB International, Inc.

# OEW Operations Safety Inspection Log

Date: 15 Nov 94 Time: 0800/1000 Contract Number: DACA87-93-D-002

Delivery Order Number: 0019 Location: TOOGLE Army Depot

Weather Conditions: 22-40°F Wind S-15 mph. 85% Humidity Clear to P/Cloudy

## I. Areas Inspected: (List by grid number, coordinates, or description)

T-1 G AREA Subsurface OEW removed.  
T-2 I AREA  
T-4 G AREA  
T-5 E AREA  
T-6 G AREA

II. Inspection Results: All teams are performing satisfactorily. All  
Schmitts are checked after grid. AP tools are secure and  
and proper use was observed. PPE required is on hand & in  
use. No discrepancies noted

III. Corrective Actions Recommended: Not Required

IV. Reinspection Results: Not Applicable

## V. Signatures:

[Signature]  
Site Safety Officer

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

[Signature]  
Sr. UXO Supervisor/Project Manager



UXB TEAM ROSTER

TEAM 1

Ronny Drain (TC)  
Darrel Davis  
Joe Bird  
Frank Carmanata

TEAM 2

Frank Santino (TC)  
Jerry Webb  
Walter Perry  
Tony Dodds

TEAM 3

Christopher Light (TC)  
Marreita Bates  
James Jackson  
Kevin McCarthy

TEAM 4

Ernest Kiehn (TC)  
Richard Coleman  
James Reed  
James Green

TEAM 5

Robert Riepe (TC)  
David Peters  
Charles Morgan  
Brian Papienthun  
Papenthien

TEAM 6

Fred Dull (TC)  
Forrest Irvin  
Raymond McMan  
Marvin Magill

Team 7

~~Quan Le (TC)~~  
~~Michael Rarris~~  
~~Kenneth Bates~~  
~~Justin Newbury~~

SURVEY TEAM

~~Jeffrey McCanch (TC)~~  
~~James Steele~~  
~~Randy Sorenson~~



UXB International, Inc.

## OEW Operations Safety Inspection Log

Date: 14 Nov 94 Time: 0730-0930 Contract Number: DACA87-93-D-002Delivery Order Number: 0019 Location: TODELE Army DepotWeather Conditions: Clear, 39°F, 12 mph W-Swath 100%, 35% Humidity

## I. Areas Inspected: (List by grid number, coordinates, or description)

Team 1 - Grids in Area GTeam 2 Grids in Area ITeam 4 Grids in Area GTeam 6 Grids in Area G

## II. Inspection Results:

All four teams performing duties in a very  
professional manner. No discrepancies noted. Total discrepancy  
picture gear, Schenckel technique, Digging technique were  
all completed with discrepancy.

## III. Corrective Actions Recommended:

None Required

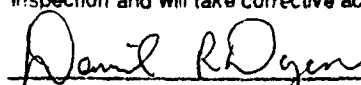
## IV. Reinspection Results:

Not Applicable

## V. Signatures:

  
Site Safety Officer

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

  
Sr. UXO Supervisor/Project Manager

UXB TEAM ROSTER

TEAM 1

Ronny Drain (TC)  
Darrel Davis  
Joe Bird  
Frank Carmanata

TEAM 2

Frank Santino (TC)  
Jerry Webb  
Walter Perry  
Tony Dodds

TEAM 3

~~Christopher Light~~ (TC)  
~~Marreita Bates~~  
~~James Jackson~~  
~~Kevin McCarthy~~

TEAM 4

Ernest Kiehn (TC)  
Richard Coleman  
James Reed  
James Green

TEAM 5

~~Robert Riepe~~ (TC)  
~~David Peters~~  
~~Charles Morgan~~  
~~Brian Papenthien~~  
Papenthien

TEAM 6

Fred Dull (TC)  
Forrest Irvin  
Raymond McMan  
Marvin Magill

Team 7

~~Quan Le~~ (TC)  
~~Michael Rarris~~  
~~Kenneth Bates~~  
Justin Newbury

SURVEY TEAM

~~Jeffrey McCanch~~ (TC)  
~~James Steele~~  
~~Randy Sorenson~~



UXB International, Inc.

# OEW Operations Safety Inspection Log

Date: 30 Nov 94 Time: 0830 Contract Number: DACA87-93-D-002

Delivery Order Number: 0019 Location: Boele Army Depot

Weather Conditions: 35°, 10 mph winds, Mostly Cloudy, 66% humidity

## I. Areas Inspected: (List by grid number, coordinates, or description)

SURFACE CREEPS  
Team 7 Quar-Lee, Paris, Bates & Newberry  
near E.

II. Inspection Results: Spot check of team 7 accomplished during  
major flag operations. No Discrepancies noted

III. Corrective Actions Recommended: None

IV. Reinspection Results: Not Required

## V. Signatures:

[Signature]  
Site Safety Officer

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

[Signature]  
Sr. UXO Supervisor/Project Manager



UXB International, Inc.

# OEW Operations Safety Inspection Log

Date: 29 Nov 94 Time: 0930 Contract Number: DACA87-93-D-002

Delivery Order Number: 0019 Location: TOOGLE Army Depot

Weather Conditions: Partly Cloudy, 22°F, 88% humidity SE winds 10 to 20 mph.

## I. Areas Inspected: (List by grid number, coordinates, or description)

Area E various GROS SURFACE SLEEPERS  
TEAMS 3 & 7

II. Inspection Results: SATISFACTORY No discrepancies noted  
NOTE CEHND SAFETY ON SITE observed operations AND NO  
discrepancies were noted

III. Corrective Actions Recommended: None

IV. Reinspection Results: Not Required

## V. Signatures:

[Signature]  
Site Safety Officer

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

[Signature]  
Sr. UXO Supervisor/Project Manager

UXB TEAM ROSTER

TEAM 1

~~Ronny Drain~~ (TC)  
~~Darrel Davis~~  
Joe Bird  
~~Frank Camanata~~

B. Schaap

TEAM 2

~~Frank Santino~~ (TC)  
~~Jerry Webb~~  
~~Walter Perry~~  
~~Tony Dodds~~

TEAM 3

~~Christopher Light~~ (TC)  
Marreita Bates  
James Jackson  
Kevin McCarthy

TEAM 4

~~Ernest Kiehn~~ (TC)  
Richard Coleman  
James Reed  
~~James Green~~

TEAM 5

~~Robert Riepe~~ (TC)  
~~David Peters~~  
~~Charles Morgan~~  
~~Brian Papenthun~~  
Papenthun

TEAM 6

~~Fred Dull~~ (TC)  
~~Forrest Irvin~~  
~~Raymond McManus~~  
Marvin Magill

Team 7

Quan Le (TC)  
Michael ~~Parris~~  
Kenneth Bates  
Justin Newbury

SURVEY TEAM

~~Jeffrey McCanch~~ (TC)  
~~James Steele~~  
~~Randy Sorenson~~



UXB International, Inc.

## OEW Operations Safety Inspection Log

Date: 28 Nov 94 Time: 1030 Contract Number: DACA87-93-D-002

Delivery Order Number: 0019 Location: TOOGLE Army Depot

Weather Conditions: 28°, 16 mph, W-winds, mostly cloudy 75% humidity

I. Areas Inspected: (List by grid number, coordinates, or description)

SURFACE Clearance SEE Report for personnel involved

Teams 5, 6, & 7 AREA H.

II. Inspection Results: All three teams performed well, no discrepancies noted. CEHND SARTY on site noted no discrepancy.

III. Corrective Actions Recommended: None Required

IV. Reinspection Results: Not Applicable

V. Signatures:

[Signature]  
Site Safety Officer

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

[Signature]  
Sr. UXO Supervisor/Project Manager

UXB TEAM ROSTER

TEAM 1

Ronny Drain (TC)  
~~Darrel Davis~~  
Joe Bird  
~~Frank Campanata~~  
SARAF

TEAM 2

Frank Santino (TC)  
Jerry Webb  
Walter Perry  
Tony Dodds

TEAM 3

Christopher Light (TC)  
Marreita Bates  
James Jackson  
Kevin McCarthy

TEAM 4

Ernest Kiehn (TC)  
Richard Coleman  
James Reed  
James Green

TEAM 5

Robert Riepe (TC)  
David Peters  
Charles Morgan  
Brian Papenthun  
Papenthien

TEAM 6

Fred Dull (TC)  
Forrest Irvin  
Raymond McManis  
Marvin Magill

Team 7

Quan Le (TC)  
Michael Harris  
Kenneth Bates  
Justin Newbury

SURVEY TEAM

Jeffrey McCanch (TC)  
James Steele  
~~Randy Sorenson~~





UXB International, Inc.

# OEW Operations Safety Inspection Log

Date: 23 Nov 94 Time: 0930 Contract Number: DACA87-93-D-002

Delivery Order Number: 0019 Location: TOOGLE Army Depot

Weather Conditions: 15° Sunny, 7mph wind SE, 96% humidity. Clear

## I. Areas Inspected: (List by grid number, coordinates, or description)

Surface Clearance.

Trams 1, 2, 3, 4, 5, 6, & 7 Mac: Flare operations in Area 14.  
See Attached Roster for personnel present

## II. Inspection Results: No discrepancies noted. All areas rated satisfactory.

## III. Corrective Actions Recommended: None

## IV. Reinspection Results: Not required

## V. Signatures:

[Signature]  
Site Safety Officer

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

[Signature]  
Sr. UXO Supervisor/Project Manager

UXB TEAM ROSTER

TEAM 1

Ronny Drain (TC)  
Darrel Davis  
Joe Bird  
~~Frank Commanata~~  
Schaaf

TEAM 2

Frank Santino (TC)  
Jerry Webb  
Walter Perry  
Tony Dodds

TEAM 3

Christopher Light (TC)  
Marreita Bates  
James Jackson  
Kevin McCarthy

TEAM 4

Ernest Kiehn (TC)  
Richard Coleman  
James Reed  
James Green

TEAM 5

Robert Riepe (TC)  
David Peters  
Charles Morgan  
Brian Papienthun  
Papenthien

TEAM 6

Fred Dull (TC)  
Forrest Irvin  
Raymond McManus  
Marvin Magill

Team 7

Quan Le (TC)  
Michael Harris  
Kenneth Bates  
Justin Newbury

~~SURVEY TEAM~~

~~Jeffrey McCanch (TC)~~  
~~James Steele~~  
~~Randy Sorenson~~



UXB International, Inc.

# OEW Operations Safety Inspection Log

Date: 22 Mar 94 Time: 1030 Contract Number: DACA87-93-D-002

Delivery Order Number: 0019 Location: TOOGLE Army Depot

Weather Conditions: Clear, 13° F, 9 mph SE winds, 94% Humidity

## I. Areas Inspected: (List by grid number, coordinates, or description)

SURFACE SWEEP

TRAN 7 - see ATTACHED ROSTER

## II. Inspection Results: No discrepancies noted RASER

NOTE CEHNG SAFETY/QA observed team - no discrepancies noted

## III. Corrective Actions Recommended: Not Required

## IV. Reinspection Results: Not Applicable

## V. Signatures:

[Signature]  
Site Safety Officer

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

[Signature]  
Sr. UXO Supervisor/Project Manager

UXB TEAM ROSTER

TEAM 1

~~Ronny Drain (TC)~~  
~~Darrel Davis~~  
~~Joe Bird~~  
~~Frank Cammanata~~

TEAM 2

~~Frank Santino (TC)~~  
~~Jerry Webb~~  
~~Walter Perry~~  
~~Tony Dodds~~

TEAM 3

~~Christopher Light (TC)~~  
~~Marreita Bates~~  
~~James Jackson~~  
~~Kevin McCarthy~~

TEAM 4

~~Ernest Kiehn (TC)~~  
~~Richard Coleman~~  
~~James Reed~~  
~~James Green~~

TEAM 5

~~Robert Riepe (TC)~~  
~~David Peters~~  
~~Charles Morgan~~  
~~Brian Papenthien~~  
Papenthien

TEAM 6

~~Fred Dull (TC)~~  
~~Forrest Irvin~~  
~~Raymond McMan~~  
~~Marvin Magill~~

Team 7

Quan Le (TC)  
Michael Rarris  
Kenneth Bates  
Justin Newbury

~~SURVEY TEAM~~

~~Jeffrey McCanch (TC)~~  
~~James Steele~~  
~~Randy Sorenson~~



UXB International, Inc.

# OEW Operations Safety Inspection Log

Date: 21 Nov 94 Time: 0900 Contract Number: DACA87-93-D-002

Delivery Order Number: 0019 Location: TOOGLE Army Depot

Weather Conditions: Clear Snow, 98% humidity, 23°F. 6mph E winds.

## I. Areas Inspected: (List by grid number, coordinates, or description)

Area F various grids See attached roster Surface  
Items 3 thru 7.

II. Inspection Results: No discrepancies noted in areas checked  
Satisfactory. Teams very professional

III. Corrective Actions Recommended: Not Required

IV. Reinspection Results: Not Applicable

## V. Signatures:

[Signature]  
Site Safety Officer

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

[Signature]  
Sr. UXO Supervisor/Project Manager

UXB TEAM ROSTER

TEAM 1

Ronny Drain (TC)  
~~Darrel Davis~~  
Joe Bird  
~~Frank Camanata~~

TEAM 2

~~Frank Santino~~ (TC)  
Jerry Webb  
Walter Perry  
~~Tony Dodds~~

TEAM 3

Christopher Light (TC)  
Marreita Bates  
James Jackson  
Kevin McCarthy

TEAM 4

Ernest Kiehn (TC)  
Richard Coleman  
James Reed  
James Green

TEAM 5

Robert Riepe (TC)  
David Peters  
Charles Morgan  
Brian ~~Papienthun~~  
Papenthien

TEAM 6

Fred Dull (TC)  
Forrest Irvin  
Raymond McMan ✓  
Marvin Magill

Team 7

Quan Le (TC)  
Michael ~~Parris~~  
Kenneth Bates  
Justin Newbury

~~SURVEY TEAM~~

~~Jeffrey McCanch~~ (TC)  
~~James Steele~~  
~~Randy Sorenson~~



UXB International, Inc.

# OEWS Operations Safety Inspection Log

Date: 17 Nov 94 Time: 0930 Contract Number: DACA87-93-D-002

Delivery Order Number: 0019 Location: TOOLE Army Depot

Weather Conditions: Partly, 24°, 10 mph (SW) winds, 78% humidity

## I. Areas Inspected: (List by grid number, coordinates, or description)

SURFACE clearance.

T-1 G & E AREA

T-5 E AREA

T-2 I AREA

T-6 E AREA

T-3 E AREA

T-7 E AREA MAC FLAG

T-4 E AREA

II. Inspection Results: All team performing professionally in very cold weather. All areas inspected are rated satisfactory.  
No Discrepancies noted

III. Corrective Actions Recommended: None Required

IV. Reinspection Results: Not Applicable

## V. Signatures:

[Signature]  
Site Safety Officer

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

[Signature]  
Sr. UXO Supervisor/Project Manager

UXB TEAM ROSTER

TEAM 1

Ronny Drain (TC)  
Darrel Davis  
Joe Bird  
~~Frank Camenata~~  
C.H. Schaff

TEAM 2

Frank Santino (TC)  
Jerry Webb  
Walter Perry  
Tony Dodds

TEAM 3

Christopher Light (TC)  
Marreita Bates  
James Jackson  
Kevin McCarthy

TEAM 4

Ernest Kiehn (TC)  
Richard Coleman  
James Reed  
James Green

TEAM 5

Robert Riepe (TC)  
David Peters  
Charles Morgan  
Brian Papienthun  
Papenthien

TEAM 6

Fred Dull (TC)  
Forrest Irvin  
Raymond McManus  
Marvin Magill

Team 7

Quan Le (TC)  
Michael Harris  
Kenneth Bates  
Justin Newbury

SURVEY TEAM

Jeffrey McCanch (TC)  
James Steele  
Randy Sorenson





UXB International, Inc.

# OEW Operations Safety Inspection Log

Date: 16 Nov 94 Time: 1030/1400 Contract Number: DACA87-93-D-002

Delivery Order Number: 0019 Location: TOOLE Army Depot

Weather Conditions: P/C 43°, Winds 23mph(S) 43% humidity. Light Snow

## I. Areas Inspected: (List by grid number, coordinates, or description)

SURFACE CLEARANCE

TEAM 7 MAG & FLAG. F AREA

TEAM 4 F AREA

TEAM 1 G AREA

TEAM 5 E AREA

TEAM 2 I AREA

TEAM 6 E AREA

TEAM 3 E AREA

See attached ROSTER FOR Personnel reported

II. Inspection Results: All teams performing well in adverse conditions,  
light snow, no discrepancies were noted.

III. Corrective Actions Recommended: None Required

IV. Reinspection Results: Not Applicable

## V. Signatures:

[Signature]  
Site Safety Officer

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

[Signature]  
Sr. UXO Supervisor/Project Manager

UXB TEAM ROSTER

TEAM 1

Ronny Drain (TC)  
Darrel Davis  
Joe Bird  
~~Frank Campanata~~

TEAM 2

Frank Santino (TC)  
Jerry Webb  
Walter Perry  
Tony Dodds

TEAM 3

Christopher Light (TC)  
Marreita Bates  
James Jackson  
Kevin McCarthy

TEAM 4

Ernest Kiehn (TC)  
Richard Coleman  
James Reed  
James Green

TEAM 5

Robert Riepe (TC)  
David Peters  
Charles Morgan  
Brian ~~Papienthun~~  
Papenthien

TEAM 6

Fred Dull (TC)  
Forrest Irvin  
Raymond McMan  
Marvin Magill

Team 7

Quan Le (TC)  
Michael Rarris  
Kenneth Bates  
Justin Newbury

SURVEY TEAM

Jeffrey McCanch (TC)  
James Steele  
Randy Sorenson



UXB International, Inc.

# OEWS Operations Safety Inspection Log

Date: 15 Nov 94 Time: 0900/1400 Contract Number: DACA87-93-D-002

Delivery Order Number: 0019 Location: TOOGLE Army Depot

Weather Conditions: 22°-40° F Winds S + mph 15. 85% Humidity Clear - P/C.

## I. Areas Inspected: (List by grid number, coordinates, or description)

<u>Team 1 Area F</u>	<u>Team 7 - Area E/E</u>	<u>Surface Mag. Flag</u>
<u>Team 2 Area F</u>		
<u>Team 4 Area F(1)</u>	<u>See Attached Roster for Personnel</u>	
<u>Team 5 Area F</u>	<u>involved</u>	
<u>Team 6 Area F</u>		

II. Inspection Results: Observed all teams and no discrepancies were noted. All teams performed in a safe and professional manner.

III. Corrective Actions Recommended: None

IV. Reinspection Results: Not Applicable

## V. Signatures:

[Signature]  
Site Safety Officer

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

[Signature]  
Sr. UXO Supervisor/Project Manager

UXB TEAM ROSTER

TEAM 1

Ronny Drain (TC)  
Darrel Davis  
Joe Bird  
~~Frank Campanata~~

TEAM 2

Frank Santino (TC)  
Jerry Webb  
Walter Perry  
Tony Dodds

TEAM 3

~~Christopher Light (TC)~~  
~~Marreita Bates~~  
James Jackson *W TEAM 2*  
Kevin McCarthy *W TEAM 4*

TEAM 4

Ernest Kiehn (TC)  
Richard Coleman  
James Reed  
James Green

TEAM 5

Robert Riepe (TC)  
David Peters  
Charles Morgan  
Brian ~~Papenthun~~  
*Papenthun*

TEAM 6

Fred Dull (TC)  
Forrest Irvin  
Raymond McMan  
Marvin Magill

Team 7

Quan Le (TC)  
Michael Rarris  
Kenneth Bates  
Justin Newbury

~~SURVEY TEAM~~

~~Jeffrey McCanch (TC)~~  
~~James Steele~~  
~~Randy Sorenson~~



UXB International, Inc.

# OEW Operations Safety Inspection Log

Date: 14 Nov 94 Time: 0730-1030 Contract Number: DACA87-93-D-002

Delivery Order Number: 0019 Location: TOOLE Army Depot

Weather Conditions: Clear, 30°F Wind 10-15 mph WNW 3/4 Sunny

## I. Areas Inspected: (List by grid number, coordinates, or description)

MAG & RAG OPERATIONS.

TEAM 7 - AREA I

TEAM 2 Area I

TEAM 3 - AREA E+I

TEAM 4 Area G

TEAM 5 - AREA E/G

TEAM 6 - AREA E

II. Inspection Results: All teams no discrepancies noted. All teams  
working well. Warm / Break pattern for cold weather  
being encouraged is working well. Hot soup &  
Liquids are available to all teams

III. Corrective Actions Recommended: None

IV. Reinspection Results: Not Required

## V. Signatures:

[Signature]  
Site Safety Officer

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

[Signature]  
Sr. UXO Supervisor/Project Manager

UXB TEAM ROSTER

TEAM 1

Ronny Drain (TC)  
Darrel Davis  
Joe Bird  
~~Frank Cammanata~~

TEAM 2

Frank Santino (TC)  
Jerry Webb  
Walter Perry  
Tony Dodds

TEAM 3

Christopher Light (TC)  
Marreita Bates  
James Jackson  
Kevin McCarthy

TEAM 4

Ernest Kiehn (TC)  
Richard Coleman  
James Reed  
James Green

TEAM 5

Robert Riepe (TC)  
David Peters  
Charles Morgan  
Brian Papienthun  
Papenthien

TEAM 6

Fred Dull (TC)  
Forrest Irvin  
Raymond McMannoss  
Marvin Magill

Team 7

Quan Le (TC)  
Michael Rarris  
Kenneth Bates  
Justin Newbury

SURVEY TEAM

~~Jeffrey McCanch (TC)~~  
~~James Steele~~  
~~Randy Sorenson~~



UXB International, Inc.

# OEI Operations Safety Inspection Log

Date: 10 Nov 94 Time: 0730-0930 Contract Number: DACA87-93-D-002

Delivery Order Number: 0019 Location: TOOLE Army Depot

Weather Conditions: PARTLY Cloudy, 51°F SWind 18-35mph, 38% humidity

## I. Areas Inspected: (List by grid number, coordinates, or description)

MAG FLAG OPERATIONS

Team 1 Area G

Teams 2-4 Area H - GRID SET-UP

Team 5 Area E

Team 6 Area E

See Attached personnel roster for

Team 7 Area F

for personnel inspected

## II. Inspection Results: All Teams performed well.

Teams 1, 5, 6-7 using proper standards procedures, good  
overlap and tight S' lanes. Teams 2-4 using grid  
and check lanes and scan holes with standards  
prior to driving grid marks. No discrepancies noted  
on terms performing professionally.

## III. Corrective Actions Recommended: None Required

## IV. Reinspection Results: Not Applicable

## V. Signatures:

[Signature]  
Site Safety Officer

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

[Signature]  
Sr. UXO Supervisor/Project Manager

UXB TEAM ROSTER

TEAM 1

Ronny Drain (TC)  
Darrel Davis  
Joe Bird  
Frank Camanata

TEAM 2

Frank Santino (TC)  
Jerry Webb  
Walter Perry  
Tony Dodds

TEAM 3

~~Christopher Light (TC)~~  
~~Marreita Bates~~  
~~James Jackson~~  
~~Kevin McCarthy~~

TEAM 4

Ernest Kiehn (TC)  
Richard Coleman  
James Reed  
James Green

TEAM 5

Robert Riepe (TC)  
David Peters  
Charles Morgan  
Brian Papenthun  
Papenthun

TEAM 6

Fred Dull (TC)  
Forrest Irvin  
Raymond McMan  
Marvin Magill

Team 7

Quan Le (TC)  
Michael Rarris  
Kenneth Bates  
Justin Newbury

~~SURVEY TEAM~~

~~Jeffrey McCanch (TC)~~  
~~James Steele~~  
~~Randy Sorenson~~





UXB International, Inc.

# OEW Operations Safety Inspection Log

Date: 9 Nov 94 Time: 1505 Contract Number: DACA87-93-D-002

Delivery Order Number: 0019 Location: TOOLE Army Depot

Weather Conditions: PARTLY Cloudy 50°F 15-25mph winds Humidity 82%

## I. Areas Inspected: (List by grid number, coordinates, or description)

SURFACE MAG: FLAG, GRID LAY OUT ONLY. Non-intrusive.

TEAMS 1, 2, 4, 5, 6 AND 7

FOR PERSONNEL SEE ATTACHED ROSTER

MAG: FLAG ARE & VARIOUS GRIDS

GRID LAY OF AREA F AND H.

## II. Inspection Results: All teams working well no discrepancies

NOTED

## III. Corrective Actions Recommended: None REQUIRED

## IV. Reinspection Results: NOT APPLICABLE

## V. Signatures:

[Signature]  
Site Safety Officer

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

[Signature]  
Sr. UXO Supervisor/Project Manager

UXB TEAM ROSTER

TEAM 1

Ronny Drain (TC)  
Darrel Davis ✓  
Joe Bird  
~~Frank Cammarata~~

TEAM 2

Frank Santino ✓ (TC)  
Jerry Webb ✓  
Walter Perry ✓  
Tony Dodds

TEAM 3

Christopher Light ✓ (TC)  
Marreita Bates ✓  
James Jackson ✓  
Kevin McCarthy ✓

TEAM 4

Ernest Kiehn (TC)  
Richard Coleman  
James Reed  
James Green

TEAM 5

Robert Riepe ✓ (TC)  
David Peters ✓  
Charles Morgan ✓  
Brian ~~Papienthun~~  
Papenthien

TEAM 6

Fred Dull ✓ (TC)  
Forrest Irvin ✓  
Raymond McMannus ✓  
Marvin Magill ✓

Team 7

Quan Le (TC)  
Michael Rarris ✓  
Kenneth Bates ✓  
Justin Newbury

SURVEY TEAM

Jeffrey McCanch ✓ (TC)  
James Steele ✓  
Randy Sorenson ✓



UXB International, Inc.

## OEW Operations Safety Inspection Log

Date: 8 Nov 94 Time: 842 Contract Number: DACA81-93-D-002Delivery Order Number: 0019 Location: Boole Army DepotWeather Conditions: Light Rain/Snow 36-40°F 13 mph winds. 96% humidity.

## I. Areas Inspected: (List by grid number, coordinates, or description)

VARIOUS GRIDS Section I Section F  
STAKE CROW + 2 4-18-94  
TEAMS 7 - 4 personnel + 4 personnel  
TEAMS 1 4 personnel  
TEAM 5 4 personnel FOR PERSONNEL SEE ATTACHED ROSTER.  
TEAM 6 3 personnel.

II. Inspection Results: Observed mag flag operations in various grids  
in AREA I. Checked Team leader logs for all teams. Schonstedt checked  
at test grid, all machines calibrated and operational. Teams working  
well, 5' lanes with overlap ok. Teams staking grids in section F  
checking and clearing while staking. No discrepancies noted.  
Breaks being taken outside of sweep areas.

III. Corrective Actions Recommended: None at present.IV. Reinspection Results: Not required.

## V. Signatures:

  
Site Safety Officer

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

  
Sr. UXO Supervisor/Project Manager

UXB TEAM ROSTER

TEAM 1

Ronny Drain (TC)  
Darrel Davis  
Joe Bird  
Frank Camanata

TEAM 2

Frank Santino (TC)  
Jerry Webb  
Walter Perry  
Tony Dodds

TEAM 3

Christopher Light (TC)  
Marreita Bates  
James Jackson  
Kevin McCarthy

TEAM 4

Ernest Kiehn (TC)  
Richard Coleman  
James Reed  
James Green

TEAM 5

Robert Riepe (TC)  
David Peters  
Charles Morgan  
Brian Papenthun  
Papenthien

TEAM 6

Fred Dull (TC)  
Forrest Irvin  
Raymond McMan  
~~Marylin Magill~~

Team 7

Quan Le (TC)  
Michael Rarris  
Kenneth Bates  
Justin Newbury

SURVEY TEAM

Jeffrey McCanch (TC)  
James Steele  
Randy Sorenson



UXB International, Inc.

## OEWS Operations Safety Inspection Log

Date: 7 Dec 94 Time: 1400 Contract Number: DACA87-93-D-002

Delivery Order Number: 0019 Location: TOOGLE Army Depot

Weather Conditions: 35°, Partly Cloudy, 6 mph N.W., 96% humidity

I. Areas Inspected: (List by grid number, coordinates, or description)

SURFACE Sweep.

AREA H Annex

TEAMS 2, 3, 4, 5, 6 SEE ATTACHED ROSTER

II. Inspection Results: SATISFACTORY, no discrepancies noted.  
CEHND on site noted no discrepancies.

III. Corrective Actions Recommended: None

IV. Reinspection Results: Not Required

V. Signatures:

[Signature]  
Site Safety Officer

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

[Signature]  
Sr. UXO Supervisor/Project Manager

UXB TEAM ROSTER

TEAM 1

Ronny Drain (TC)  
~~Barrel Davis~~  
Joe Bird  
~~Frank Cammanata~~  
m. BARS

TEAM 2

Frank Santino (TC)  
Jerry Webb  
Walter Perry  
Tony Dodds

TEAM 3

Christopher Light (TC)  
~~Marreita Bates~~ m. SchAAF  
James Jackson  
Kevin McCarthy

TEAM 4

Ernest Kiehn (TC)  
Richard Coleman  
James Reed  
James Green

TEAM 5

Robert Riepe (TC)  
David Peters  
Charles Morgan  
Brian Papenthien  
Papenthien

TEAM 6

Fred Dull (TC)  
Forrest Irvin  
Raymond McManU  
Marvin Magill

Team 7

Quan Le (TC)  
Michael Harris  
Kenneth Bates  
Justin Newbury

~~SURVEY TEAM~~

~~Jeffrey McCanch (TC)~~  
~~James Steele~~  
~~Randy Sorenson~~



UXB International, Inc.

## OEW Operations Safety Inspection Log

Date: 6 Dec 94 Time: 1030 Contract Number: DACA87-93-D-002

Delivery Order Number: 0019 Location: TOOGLE Army Depot

Weather Conditions: Cloudy, 36°, 8 mph SE, 79% Humidity

I. Areas Inspected: (List by grid number, coordinates, or description)

SURFACE SWEEPS (

TEAMS. 1, 3, 5, 6. See Annexure

AREA E Annex & F Annex.

II. Inspection Results: Observed listed teams during mag & RAR operations  
WEST OF DEAS E & F. No discrepancies noted.

III. Corrective Actions Recommended: None

IV. Reinspection Results: Not Applicable.

V. Signatures:

[Signature]  
Site Safety Officer

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

[Signature]  
Sr. UXO Supervisor/Project Manager

UXB TEAM ROSTER

TEAM 1

Ronny Drain (TC)

~~Barrel Davis~~

Joe Bird

~~Frank Camanata~~

M. BATES

TEAM 2

Frank Santino (TC)

Jerry Webb

Walter Perry

Tony Dodds

TEAM 3

Christopher Light (TC)

~~Marreita Bates~~ M. SCHAAF

James Jackson

Kevin McCarthy

TEAM 4

Ernest Kiehn (TC)

Richard Coleman

James Reed

James Green

TEAM 5

Robert Riepe (TC)

David Peters

Charles Morgan

Brian Papienthun

Papienthun

TEAM 6

Fred Dull (TC)

Forrest Irvin

Raymond McManus

Marvin Magill

Team 7

Quan Le (TC)

Michael Harris

Kenneth Bates

Justin Newbury

SURVEY TEAM

Jeffrey McCanch (TC)

James Steele

Randy Sorenson





UXB International, Inc.

## OEW Operations Safety Inspection Log

Date: 5 Dec 94 Time: 1430 Contract Number: DACA87-93-D-002

Delivery Order Number: 0019 Location: TOOLE Army Depot

Weather Conditions: 46°, 5/8 humidity, Partly Cloudy, 5-16 mph + 28 mph gusts

### I. Areas Inspected: (List by grid number, coordinates, or description)

SURFACE Sweeps

Teams 1, 2, 3, 5, 6. See Attached Roster

Area E.

II. Inspection Results: Observed teams doing mine + flag operations  
in Area E. No Discrepancies noted. Teams working well  
in very muddy conditions.

III. Corrective Actions Recommended: None required

IV. Reinspection Results: Not Applicable

### V. Signatures:

[Signature]  
Site Safety Officer

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

[Signature]  
Sr. UXO Supervisor/Project Manager

UXB TEAM ROSTER

TEAM 1

Ronny Drain (TC)

~~Darrel Davis~~

Joe Bird

~~Frank Camaneta~~

Schoff

TEAM 2

Frank Santino (TC)

Jerry Webb

Walter Perry

Tony Dodds

TEAM 3

Christopher Light (TC)

Marreita Bates

James Jackson

Kevin McCarthy

TEAM 4

Ernest Kiehn (TC)

Richard Coleman

James Reed

~~James Green~~

TEAM 5

Robert Riepe (TC)

David Peters

Charles Morgan

Brian Papienthun

Papienthun

TEAM 6

Fred Dull (TC)

Forrest Irvin

Raymond McManis

Marvin Magill

Team 7

Quan Le (TS)

Michael Harris

Kenneth Bates

Justin Newbury

SURVEY TEAM

Jeffrey McCanch (TC)

James Steele

Randy Sorenson



UXB International, Inc.

# OEW Operations Safety Inspection Log

Date: 1 Dec 94 Time: 1030/120 Contract Number: DACA87-93-D-002

Delivery Order Number: 0019 Location: TOOGLE Army Depot

Weather Conditions: Clear, 26°F, 96% humidity - NW 5 mph winds.

## I. Areas Inspected: (List by grid number, coordinates, or description)

SURFACE Sweeps.

Teams 1-7 see Attached. Report

Grid near E. H.

II. Inspection Results: No discrepancies noted. All team performance well inside safety parameters.

III. Corrective Actions Recommended: None

IV. Reinspection Results: Not Applicable

## V. Signatures:

[Signature]  
Site Safety Officer

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

[Signature]  
Sr. UXO Supervisor/Project Manager

UXB TEAM ROSTER

TEAM 1

Ronny Drain (TC)  
~~Darrel Davis~~  
Joe Bird  
~~Frank Cammarata~~  
Scharf

TEAM 2

Frank Santino (TC)  
Jerry Webb  
Walter Perry  
Tony Dodds

TEAM 3

Christopher Light (TC)  
Marreita Bates  
James Jackson  
Kevin McCarthy

TEAM 4

Ernest Kiehn (TC)  
Richard Coleman  
James Reed  
James Green

TEAM 5

Robert Riepe (TC)  
David Peters  
Charles Morgan  
Brian Papienthun  
Papenthien

TEAM 6

Fred Dull (TC)  
Forrest Irvin  
Raymond McManis  
Marvin Magill

Team 7

Quan Le (TC)  
Michael Harris  
Kenneth Bates  
Justin Newbury

~~SURVEY TEAM~~

~~Jeffrey McCanch (TC)~~  
~~James Steele~~  
~~Randy Sorenson~~

UXB TEAM ROSTER

TEAM 1

Ronny Drain (TC)  
Darrel Davis  
Joe Bird  
~~Frank Cammarata~~  
Schara

TEAM 2

Frank Santino (TC)  
Jerry Webb  
Walter Perry  
Tony Dodds

TEAM 3

Christopher Light (TC)  
Marreita Bates  
James Jackson  
Kevin McCarthy

TEAM 4

Ernest Kiehn (TC)  
Richard Coleman  
James Reed  
James Green

TEAM 5

Robert Riepe (TC)  
David Peters  
Charles Morgan  
Brian Papienthun  
Papenthien

TEAM 6

Fred Dull (TC)  
Forrest Irvin  
Raymond McMan UJ  
Marvin Magill

Team 7

Quan Le (TC)  
Michael Parris  
Kenneth Bates  
Justin Newbury

SURVEY TEAM

Jeffrey McCanch (TC)  
James Steele  
Randy Sorenson



UXB International, Inc.

## OEW Operations Safety Inspection Log

Date: Dec 94 Time: 0730/1830 Contract Number: DACA87-93-D-002

Delivery Order Number: 0019 Location: TOOGLE Army Depot

Weather Conditions: 26° 96% humidity, Clear sky, Smooth winds.

### I. Areas Inspected: (List by grid number, coordinates, or description)

Subsurface

Area H - team 4

Area E teams 1, 2, 3, 5 & 6.

II. Inspection Results: All teams performed satisfactorily. No discrepancies noted.

III. Corrective Actions Recommended: None Required

IV. Reinspection Results: Not Applicable

### V. Signatures:

[Signature]  
Site Safety Officer

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

[Signature]  
Sr. UXO Supervisor/Project Manager

UXB TEAM ROSTER

TEAM 1

Ronny Drain (TC)

~~Darrel Davis~~

Joe Bird

~~Frank Camaneta~~

M Schaefer

TEAM 2

Frank Santino (TC)

Jerry Webb

Walter Perry

Tony Dodds

TEAM 3

Christopher Light (TC)

Marreita Bates

James Jackson

Kevin McCarthy

TEAM 4

Ernest Kiehn (TC)

Richard Coleman

James Reed

James Green

TEAM 5

Robert Riepe (TC)

David Peters

Charles Morgan

Brian ~~Papenthun~~

Papethien

TEAM 6

Fred Dull (TC)

Forrest Irvin

Raymond McManus

Marvin Magill

~~Team 7~~

~~Quan Le (TC)~~

~~Michael Harris~~

~~Kenneth Bates~~

~~Justin Newbury~~

~~SURVEY TEAM~~

~~Jeffrey McCanch (TC)~~

~~James Steele~~

~~Randy Sorenson~~



UXB International, Inc.

# OEW Operations Safety Inspection Log

Date: 5 DEC 94 Time: 1030 Contract Number: DACA87-93-D-002

Delivery Order Number: 0019 Location: TOOGLE Army Depot

Weather Conditions: Partly Cloudy, 45% 51% Humidity, Wind S 5 to 10 mph 28 mph Gust

## I. Areas Inspected: (List by grid number, coordinates, or description)

AREA E SUBSURFACE OPERATIONS TEAMS 1, 2, 3, 5 & 6

AREA G BACKHOE OPERATIONS TEAM 4

See ATTACHED TEAM CONTACT

II. Inspection Results: Observed subsurface clearance operation in Area E  
with no discrepancies noted. Backhoe clearance operation in  
Area G with no discrepancies noted. Team working well  
under severe muddy conditions. No CEHMO QA LARBY  
observed operation in progress and noted no discrepancies.

III. Corrective Actions Recommended: Not Required

IV. Reinspection Results: Not Applicable

## V. Signatures:

[Signature]

Site Safety Officer

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

[Signature]

Sr. UXO Supervisor/Project Manager





UXB International, Inc.

## OEW Operations Safety Inspection Log

Date: 6 Dec 94 Time: 0900 Contract Number: DACA87-93-D-002

Delivery Order Number: 0019 Location: TOOLE Army Depot

Weather Conditions: P.C. 33°, 79% humidity 8 mph SE winds

I. Areas Inspected: (List by grid number, coordinates, or description)

Subsurface Team 2 SANTINO, WEBB, PERRY, Dodds  
AREA E and AMX E

II. Inspection Results: Observed Team 2 during intrusive operations  
in AREA E. No discrepancies noted.

III. Corrective Actions Recommended: None

IV. Reinspection Results: Not Applicable

V. Signatures:

[Signature]  
Site Safety Officer

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

[Signature]  
Sr. UXO Supervisor/Project Manager

UXB TEAM ROSTER

TEAM 1

Ronny Drain (TC)  
~~Barrel Davis~~  
Joe Bird  
~~Frank Camanata~~  
m. Bares

TEAM 2

Frank Santino (TC)  
Jerry Webb  
Walter Perry  
Tony Dodds

TEAM 3

Christopher Light (TC)  
~~Marreita Bates~~ m. SchAAF  
James Jackson  
Kevin McCarthy

TEAM 4

~~Ernest Kiehn~~ (TC)  
Richard Coleman  
James Reed  
~~James Green~~

TEAM 5

Robert Riepe (TC)  
David Peters  
Charles Morgan  
Brian ~~Papienthun~~  
Papenthien

TEAM 6

Fred Dull (TC)  
Forrest Irvin  
Raymond McManus  
Marvin Magill

Team 7

~~Quan Le~~ (TC)  
Michael ~~Harris~~  
Kenneth Bates  
~~Justin Newbury~~

~~SURVEY TEAM~~

~~Jeffrey McCanch~~ (TC)  
~~James Steele~~  
~~Randy Sorenson~~



UXB International, Inc.

## OEW Operations Safety Inspection Log

Date: 7 Dec 98 Time: 0800 Contract Number: DACA87-93-D-002

Delivery Order Number: 0019 Location: TOOGLE Army Depot

Weather Conditions: 30°, 8 mph N.E. winds, snow, mostly cloudy.

### I. Areas Inspected: (List by grid number, coordinates, or description)

Subsurface. AREA E Annex.  
TRANS 1, 2, 3, 5, 6 - see Attached.

II. Inspection Results: All teams performing well, no discrepancies noted. CEHWD QA/Safety on site - NO discrepancies noted.

III. Corrective Actions Recommended: None Required

IV. Reinspection Results: Not Applicable

### V. Signatures:

[Signature]  
Site Safety Officer

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

[Signature]  
Sr. UXO Supervisor/Project Manager



UXB International, Inc.

## OEW Operations Safety Inspection Log

Date: 8 Dec 94 Time: 0730-1000 Contract Number: DACA87-93-D-002Delivery Order Number: 0019 Location: Tooele Army DepotWeather Conditions: 20°F, 100% humidity, Smith S. winds, snow showers/P.C.

## I. Areas Inspected: (List by grid number, coordinates, or description)

SUBSURFACE2- Salsion, Dodder, Webb, PerryAREA H- Annex3- Light, Bates, Jackson, McCartyTEAMS 2, 3, 4, 54. Kiehn, Coleman, Reed, Green5. Rieve, Peters, Morgan, Rapantien

II. Inspection Results: Observed above listed teams during ordnance removal and survey of Annex H ARSA. All teams performance was satisfactory. No discrepancies noted CEHND QA/SAFETY REP ON SITE OBSERVED THESE SAME OPERATIONS AND NOTED NO DISCREPANCIES.

III. Corrective Actions Recommended: None RequiredIV. Reinspection Results: Not Applicable

## V. Signatures:

  
Site Safety Officer

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

  
Sr. UXO Supervisor/Project Manager



UXB International, Inc.

## OEW Operations Safety Inspection Log

Date: 1 Dec 94 Time: 1400 Contract Number: DACA87-93-D-002

Delivery Order Number: 0019 Location: TOOLE Army Depot

Weather Conditions: 38°F, Partly Cloudy, 10 mph winds, 96% humidity.

I. Areas Inspected: (List by grid number, coordinates, or description)

TRANSPORT OF Explosives (OEWS)  
Team 1 Drain, Schaefer, Bico.

II. Inspection Results: No discrepancies noted. All safety requirements  
being met.

III. Corrective Actions Recommended: None

IV. Reinspection Results: No, Applicable

V. Signatures:

[Signature]  
Site Safety Officer

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

[Signature]  
Sr. UXO Supervisor/Project Manager



UXB International, Inc.

# OEW Operations Safety Inspection Log

Date: 5 Dec 94 Time: 1415 Contract Number: DACA87-93-D-002

Delivery Order Number: 0019 Location: TOOGLE Army Depot

Weather Conditions: Partly Cloudy, 45° to 57° humidity, 6-15 mph winds gusts to 28 mph

## I. Areas Inspected: (List by grid number, coordinates, or description)

TRANSPORTATION OF Explosives (OEWS)

TEAM 1 DRAIN, SchAAF, Bied.

II. Inspection Results: Observed operations during pick-up of OEWS  
in Grids to delivery of OEWS to TEAM personnel. No  
discrepancies noted

III. Corrective Actions Recommended: None

IV. Reinspection Results: Not Applicable

## V. Signatures:

[Signature]  
Site Safety Officer

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

[Signature]  
Sr. UXO Supervisor/Project Manager



UXB International, Inc.

# OEW Operations Safety Inspection Log

Date: 6 Dec 94 Time: 1345 Contract Number: DACA87-93-D-002

Delivery Order Number: 0019 Location: TOOLE Army Depot

Weather Conditions: Partly Cloudy, 45°, Snd SE winds, 79% humidity

## I. Areas Inspected: (List by grid number, coordinates, or description)

TRANSPORTATION OF EXPLOSIVES (OEWE)

PA-1, DRAW, BARS, BIRD

VARIOUS AREAS

II. Inspection Results: SATISFACTORY, ALL REQUIREMENTS COMPLIED WITH, NO DISCREPANCIES NOTED

III. Corrective Actions Recommended: NOT REQUIRED

IV. Reinspection Results: NOT APPLICABLE

## V. Signatures:

[Signature]  
Site Safety Officer

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

[Signature]  
Sr. UXO Supervisor/Project Manager



UXB International, Inc.

# OEWS Operations Safety Inspection Log

Date: 7 Dec 98 Time: 1715 Contract Number: DACA87-93-D-002

Delivery Order Number: 0019 Location: TOOGLE Army Depot

Weather Conditions: PARTLY Cloudy, 35°, 5mph NE winds 97% humidity

## I. Areas Inspected: (List by grid number, coordinates, or description)

TRANSPORTATION OF EXPLOSIVES (OEWS)

TEAM 1 DRAW BATES, BIRD

VARIOUS AREAS TO TRANSFER POINT.

II. Inspection Results: No problems or discrepancies noted. Smooth operation.

III. Corrective Actions Recommended: None

IV. Reinspection Results: Not Applicable

## V. Signatures:

[Signature]  
Site Safety Officer

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

[Signature]  
Sr. UXO Supervisor/Project Manager





UXB International, Inc.

## OEW Operations Safety Inspection Log

Date: 8 Dec 94 Time: 1000 Contract Number: DACA87-G3-D-002

Delivery Order Number: 0019 Location: TOOGLE Army Depot

Weather Conditions: Snow showers, 25°, 100% humidity, 5 mph winds

### I. Areas Inspected: (List by grid number, coordinates, or description)

TRANSPORTATION OF EXPLOSIVES

TRAIL 1 DRAIN

MC CONRY

BIRD

II. Inspection Results: No discrepancies noted. CEHNO QA/SAPRY  
observed this operation and noted no discrepancies

III. Corrective Actions Recommended: None

IV. Reinspection Results: Not Applicable

### V. Signatures:

[Signature]  
Site Safety Officer

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

[Signature]  
Sr. UXO Supervisor/Project Manager



UXB International, Inc.

## OEW Operations Safety Inspection Log

Date: 1 Dec 94 Time: 0800 Contract Number: DACA87-93-D-002Delivery Order Number: 0019 Location: TOOELE Army DepotWeather Conditions: 26°, Clear, 0-5 mph W. winds, 96% humidity

## I. Areas Inspected: (List by grid number, coordinates, or description)

Personnel Protocols.Teams 1, 5 & Survey spot checkedII. Inspection Results: Above team spot checked. No discrepancies noted. All required PPE being worn.III. Corrective Actions Recommended: Not applicableIV. Reinspection Results: No Reinspection

## V. Signatures:

[Signature]  
Site Safety Officer

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

[Signature]  
Sr. UXO Supervisor/Project Manager

UXB TEAM ROSTER

TEAM 1

Ronny Drain (TC)  
~~Darrell Davis~~  
Joe Bird  
~~Schaap~~

TEAM 2

~~Frank Santino~~ (TC)  
~~Jerry Webb~~  
~~Walter Perry~~  
Tony Dodds

TEAM 3

~~Christopher Light~~ (TC)  
~~Marvette Bates~~  
James Jackson  
~~Kevin McCarthy~~

TEAM 4

~~Ernest Kiehn~~ (TC)  
~~Richard Coleman~~  
~~James Reed~~  
~~James Green~~

TEAM 5

Robert Riepe (TC)  
David Peters  
Charles Morgan  
Brian Papenthien

TEAM 6

~~Fred Dull~~ (TC)  
~~Forrest Irvin~~  
~~Raymond McManus~~  
~~Marvin Magill~~

TEAM 7

~~Quan Le~~ (TC)  
~~Michael Parris~~  
~~Kenneth Bates~~  
~~Justin Newbury~~

SURVEY TEAM

Jeffrey McCanch (TC)  
James Steele  
Randy Sorenson



UXB International, Inc.

## OEW Operations Safety Inspection Log

Date: 5 Dec 94 Time: 1030/1400 Contract Number: DACA87-93-D-002

Delivery Order Number: 0019 Location: TOOLE Army Depot

Weather Conditions: 45° S12 humidity Partly Cloudy, Winds SO, 6-15 W. r.g. 628nd

### I. Areas Inspected: (List by grid number, coordinates, or description)

Personal Protection

Teams 1-7 and survey see ATTACHED REPORT  
E, G & H AREAS.

II. Inspection Results: Observed all working teams to include survey team during various operations during the day. All personnel were observed wearing proper PPE. No discrepancies were noted by myself or the CERNO rep. on site

III. Corrective Actions Recommended: None

IV. Reinspection Results: Not Required

### V. Signatures:

[Signature]  
Site Safety Officer

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

[Signature]  
Sr. UXO Supervisor/Project Manager

## **ANNEX G**

### **Exposure Data**

<b>Man-hours worked</b>	<b>7,596</b>
<b>Vehicle Mileage</b>	<b>32,167</b>

## **ANNEX H**

### **Financial Breakdown**

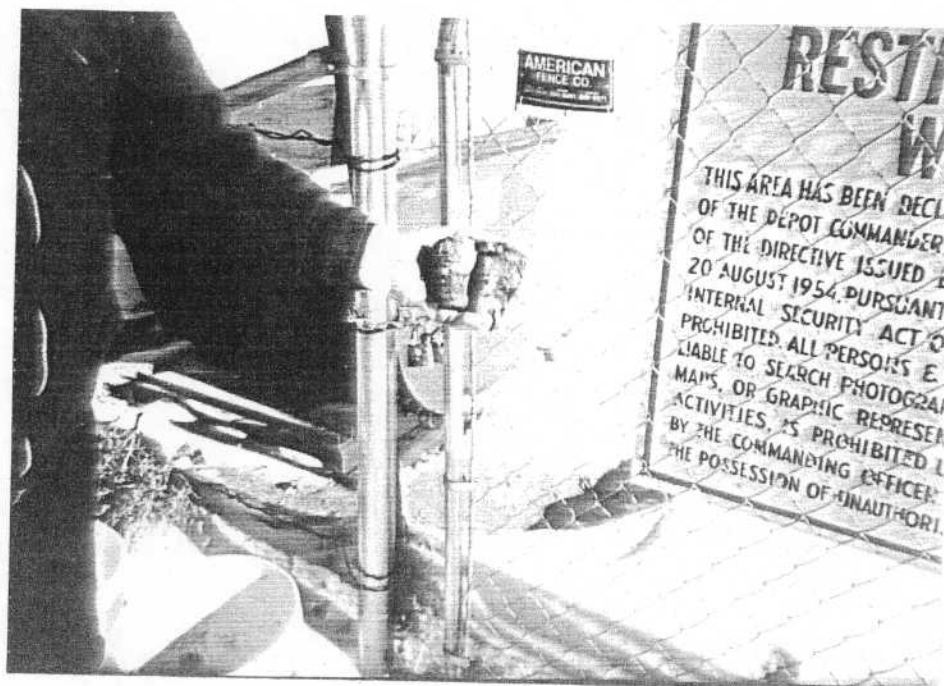
<b>LABOR</b>	
Project Manager	306.0 Hours
Senior UXO Supervisor	275.0 Hours
Safety/QC Officer	250.0 Hours
UXO Supervisor	1,803.5 Hours
UXO Specialist	3,747.0 Hours
Certified Industrial Hygienist	8.0 Hours
Surveyor	326.0 Hours
Rodman	269.0 Hours
Drafter	41.5 Hours
Magnetometer Operator	570.0 Hours
Total Labor	7,596.0 Hours
Total Labor Cost	\$197,198.08

<b>Travel and Materials</b>	
Total Travel Cost	\$153,682.40
Total Materials Cost	\$30,717.81

# BD FUZE



# M103 FUZE



90mm HE



RAW HE





# VT FUZE



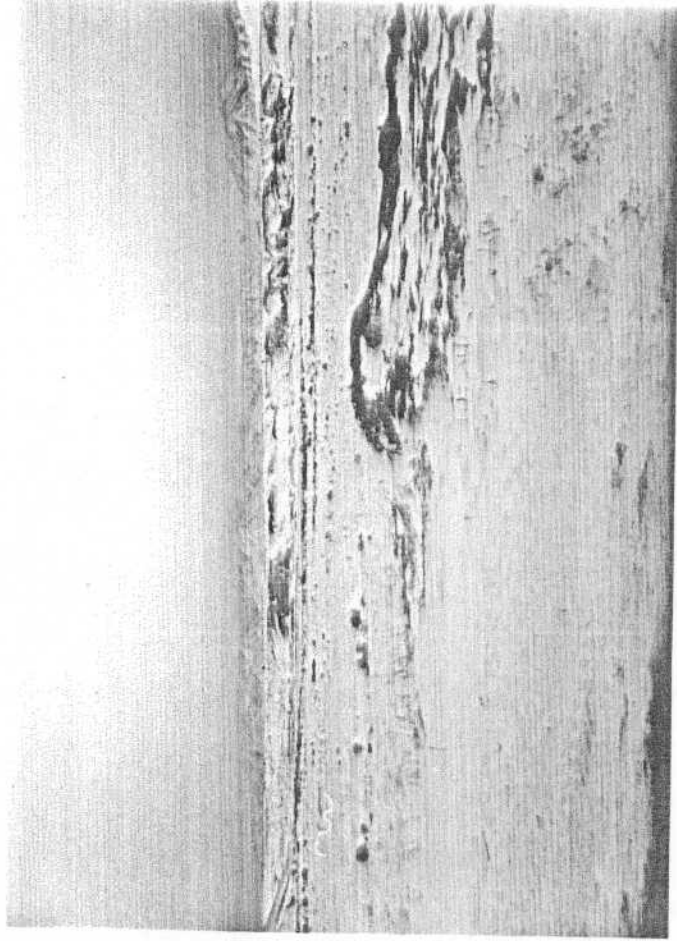
# MTSQ FUZE



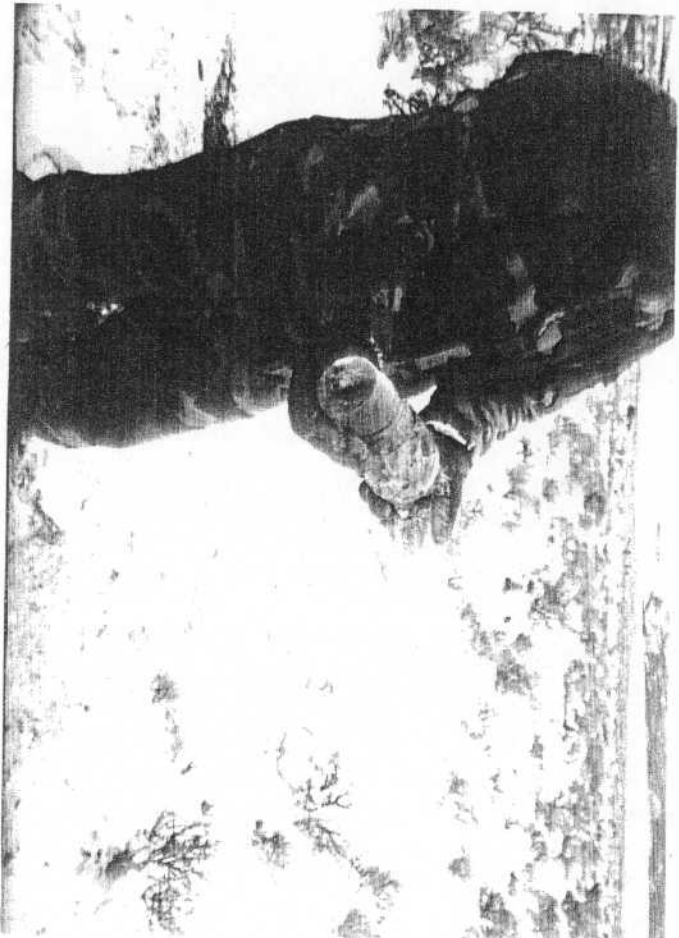
OEW BIN



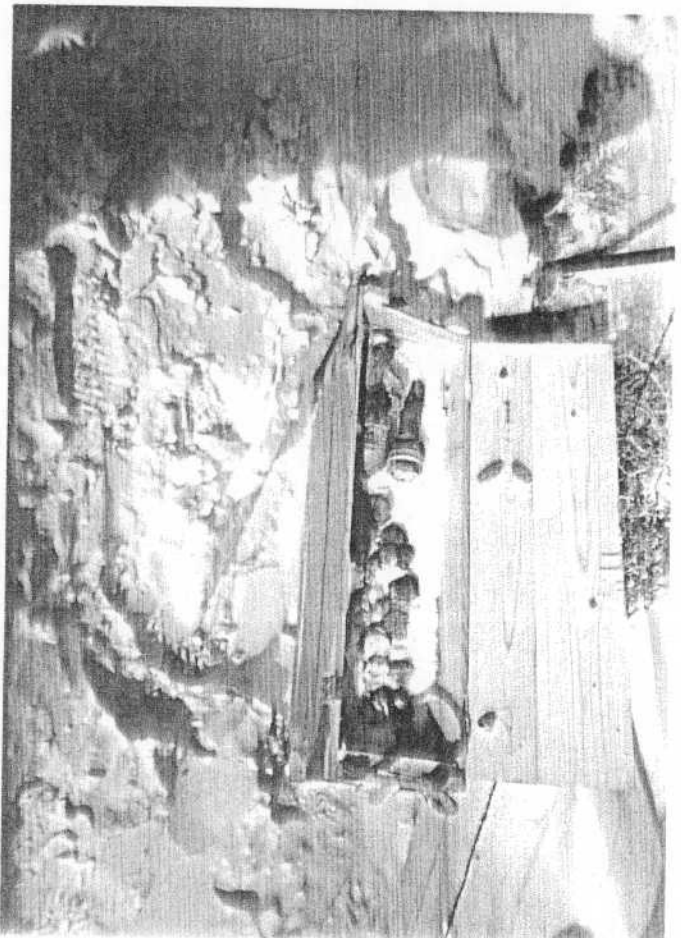
DEMO RANGE (TOOELE)



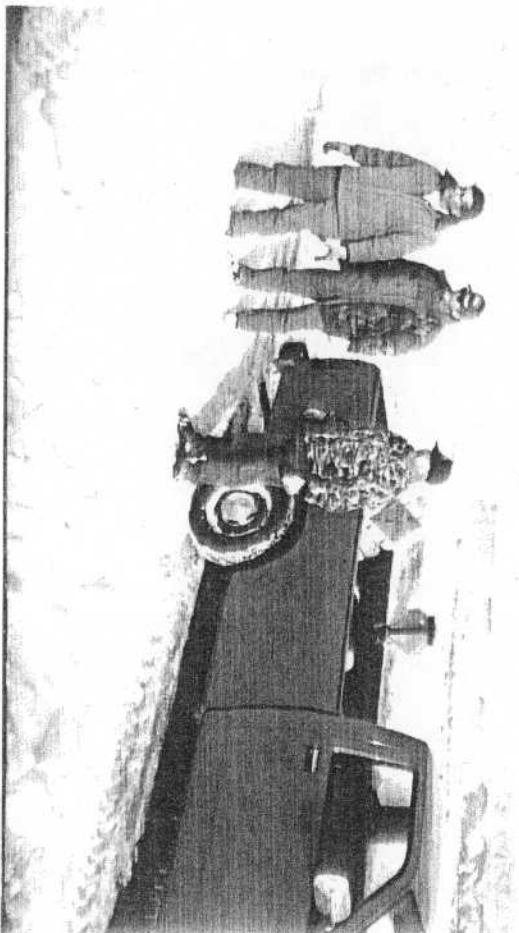
90mm HE



BOX OF ORDNANCE



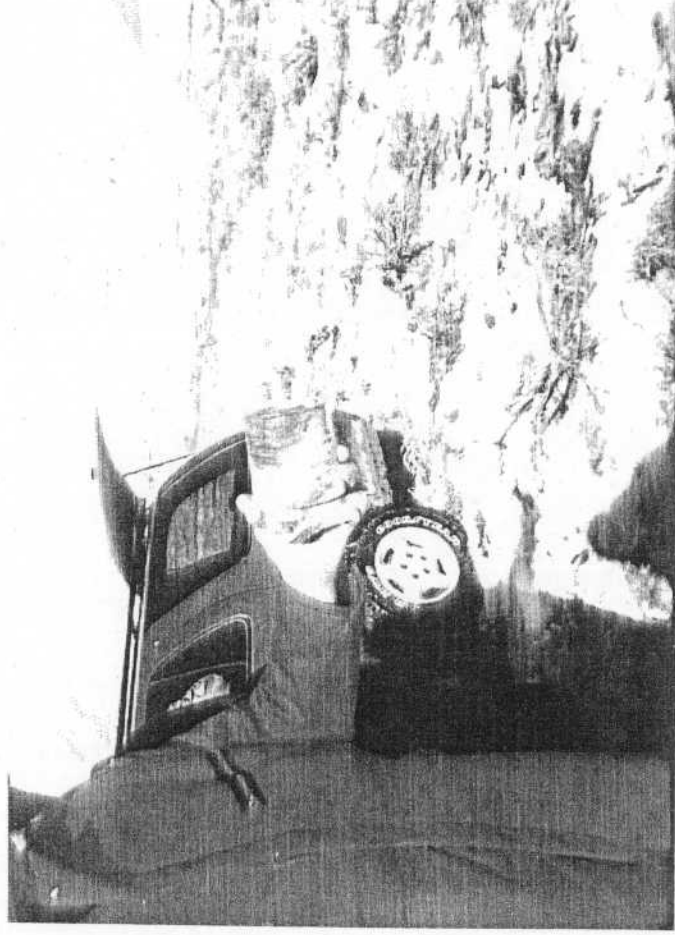
DE 4000 DEMO PERSONNEL



3.5" ROCKET FUZE



20 POUND FRAGMENTATION BOMB



90 POUND FRAGMENTATION BOMB

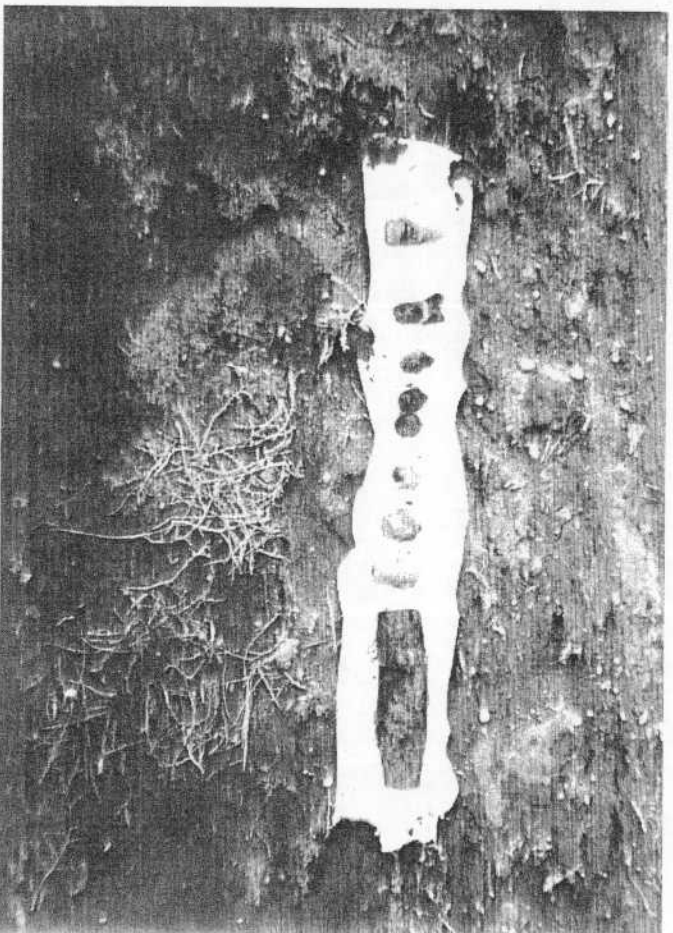




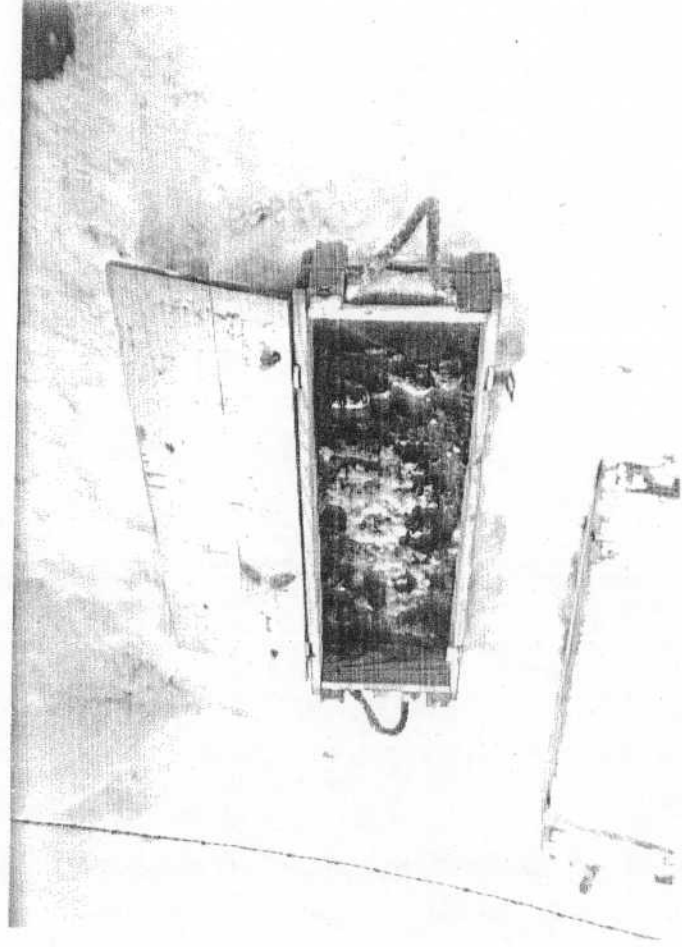
20 POUND FRAGMENTATION BOMB



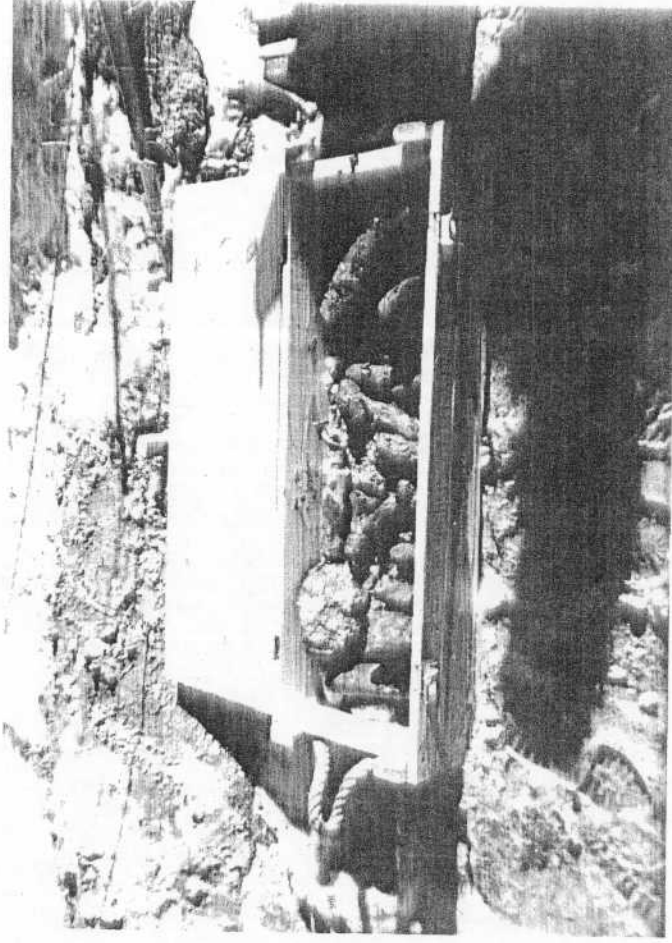
90mm HE



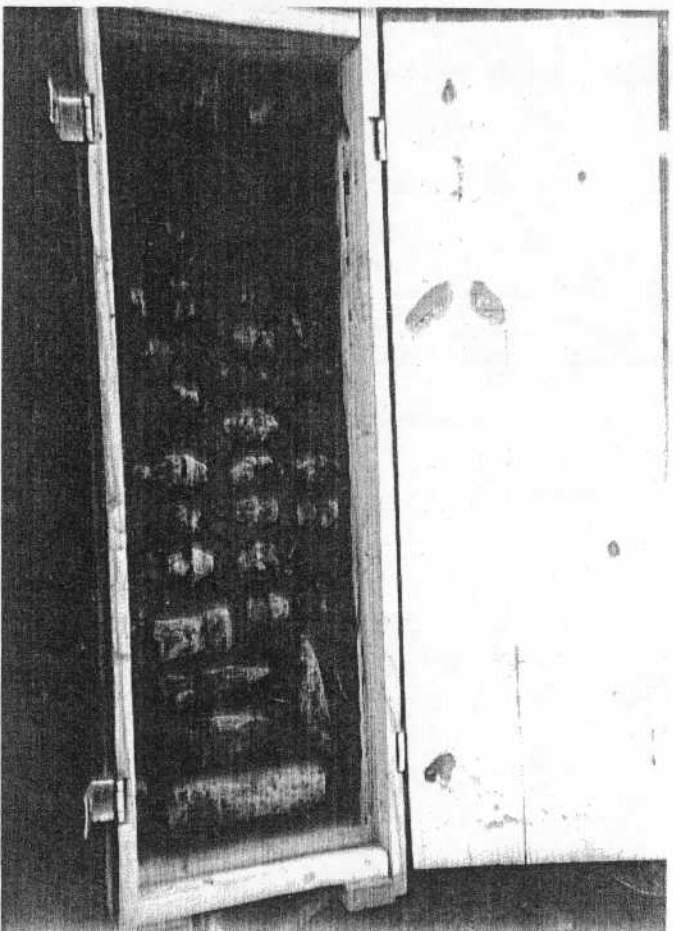
90mm plus FUZES



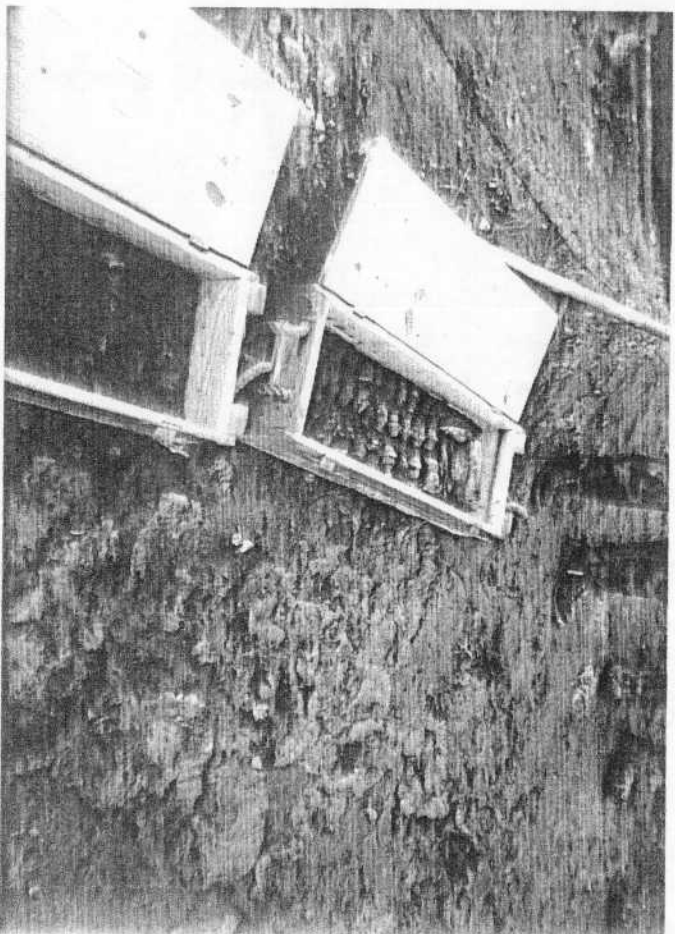
BOX OF ORDNANCE



BOX OF ORDNANCE

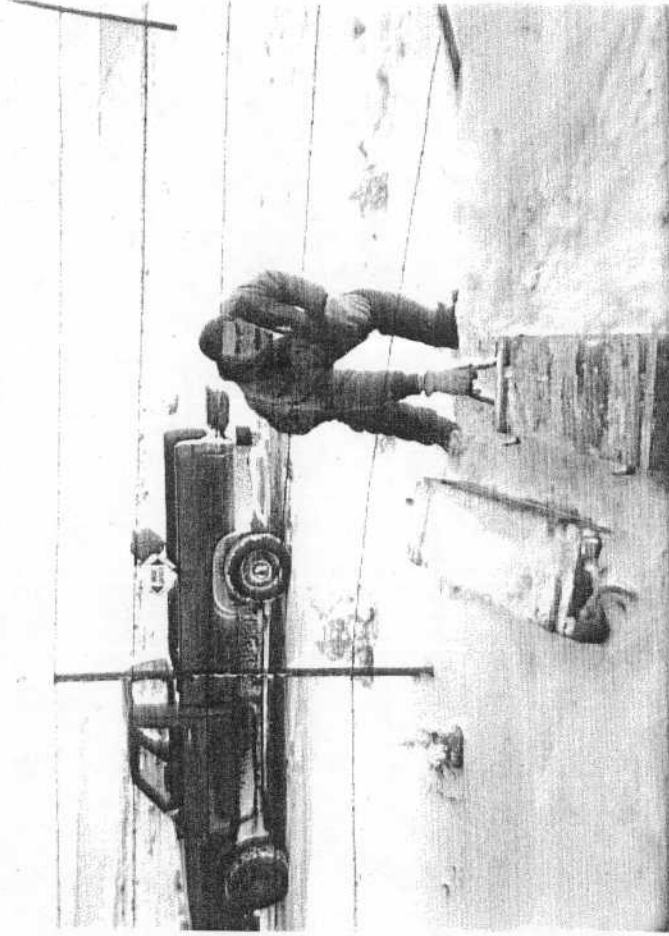


LAST DAY OF ORDNANCE TURN-IN

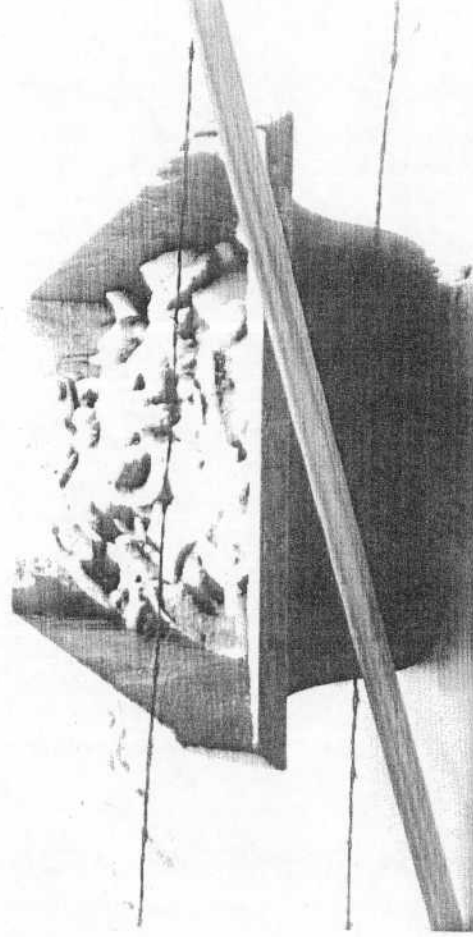




AMMUNITION PICK UP



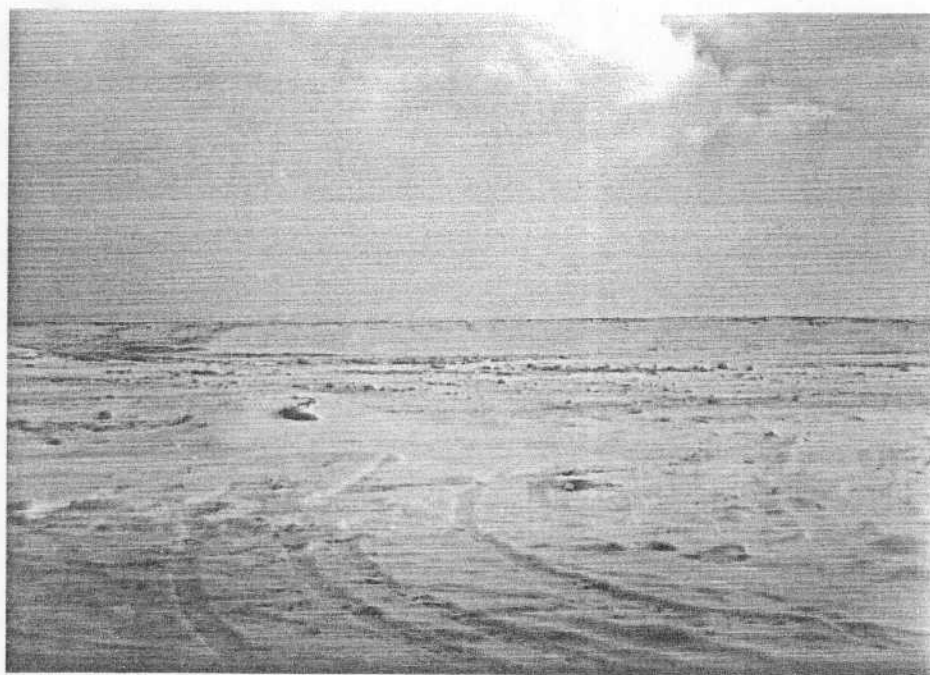
OEWS CRAP



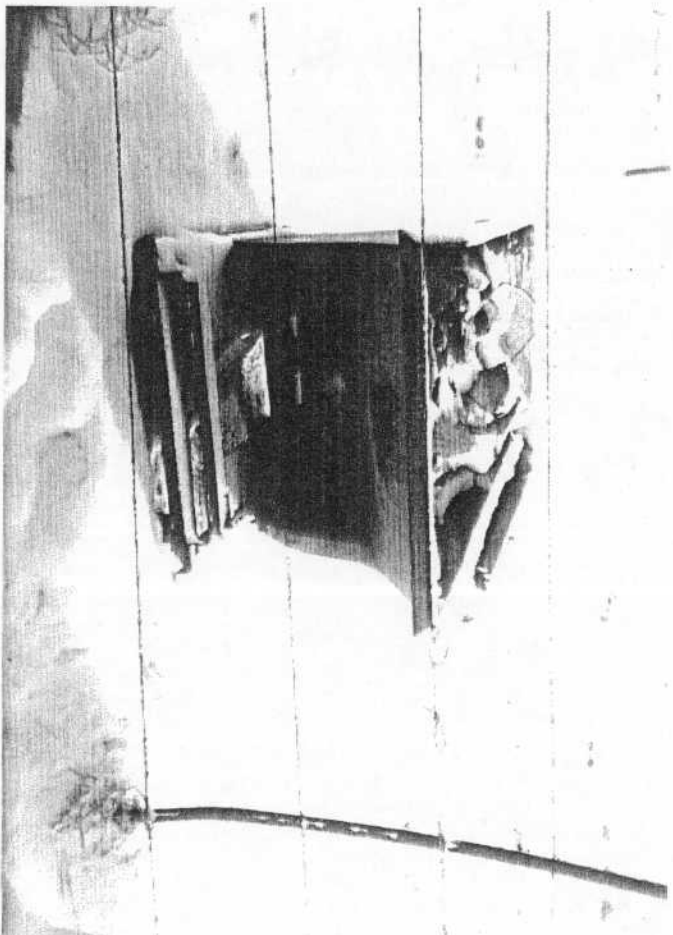
## PAPERWORK TURN IN



## TOOELE DISPOSAL SITE



NON-OEW SCRAP



M 103 NOSE FUZE - AREA H



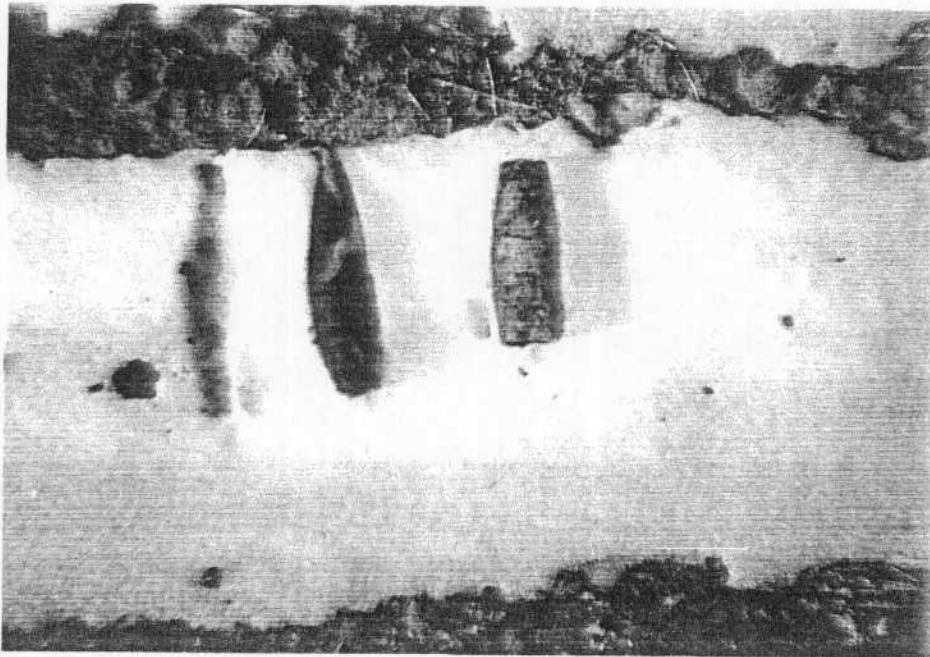
REAR OF 90mm HEP - AREA H



BD FUZE WITH TRACER - AREA H



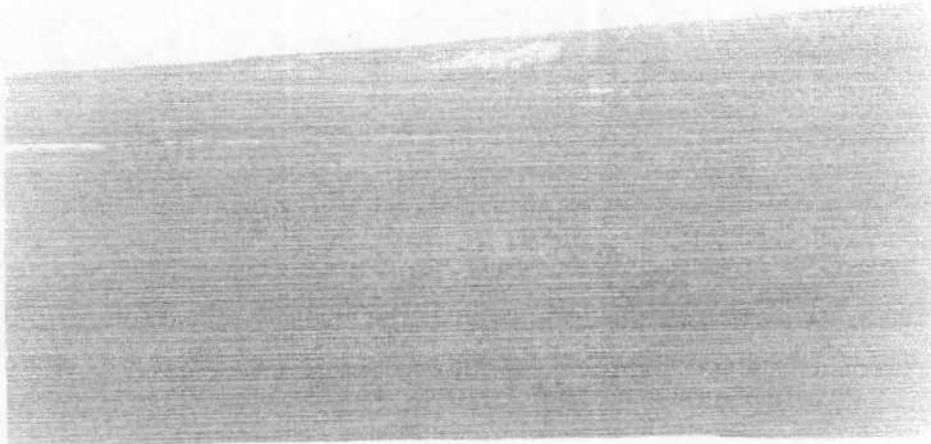
37mm PROJECTILE - AREA E



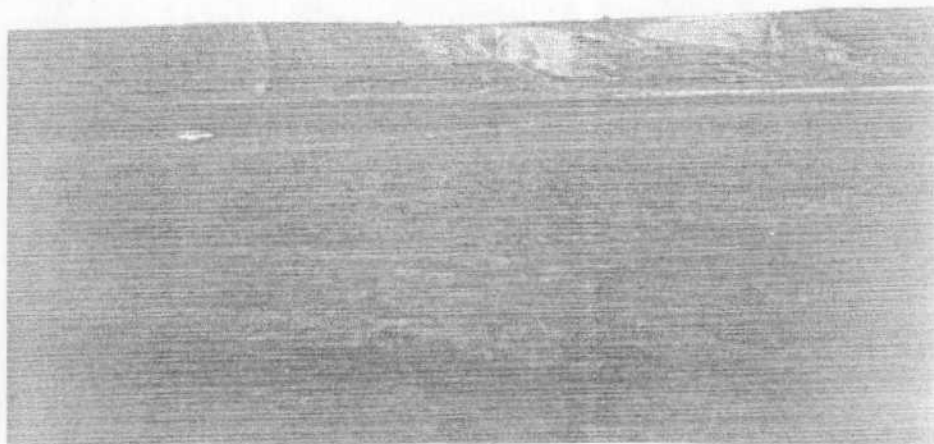
105mm PROJECTILE - AREA E



NORTH AREA E

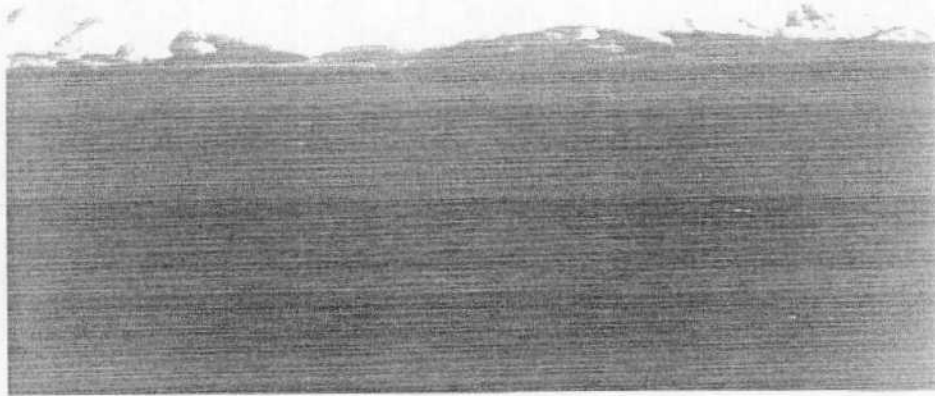


SOUTH AREA E

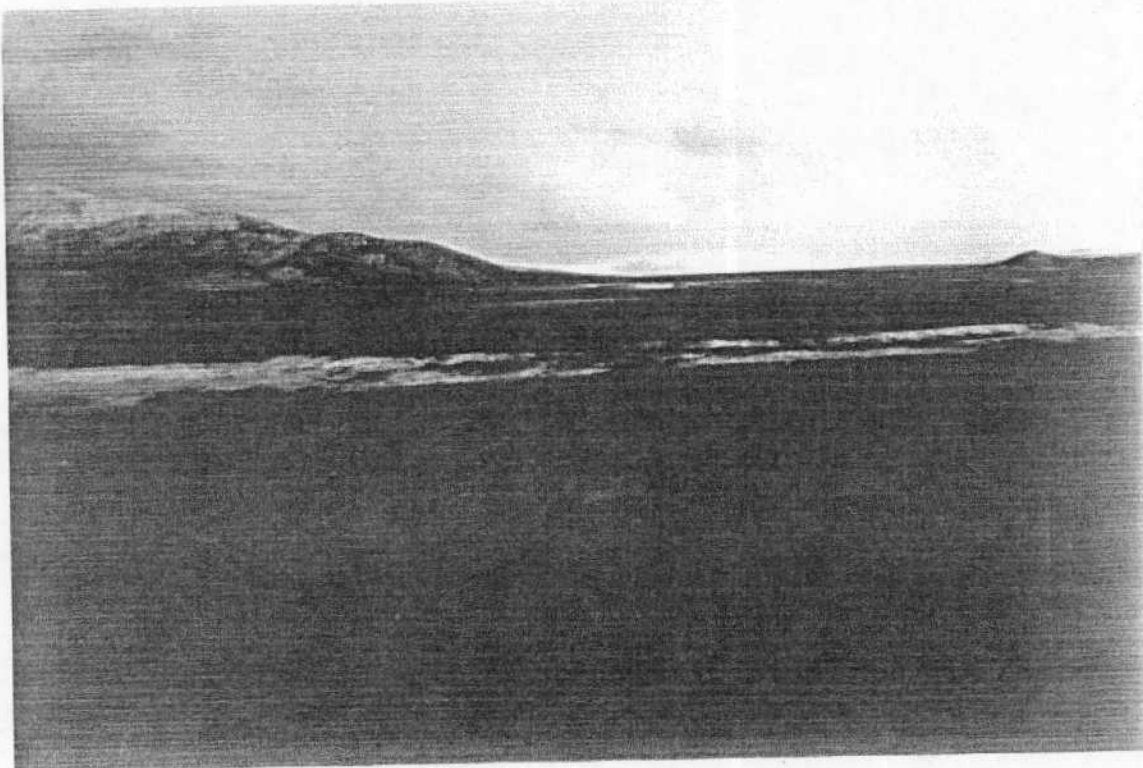




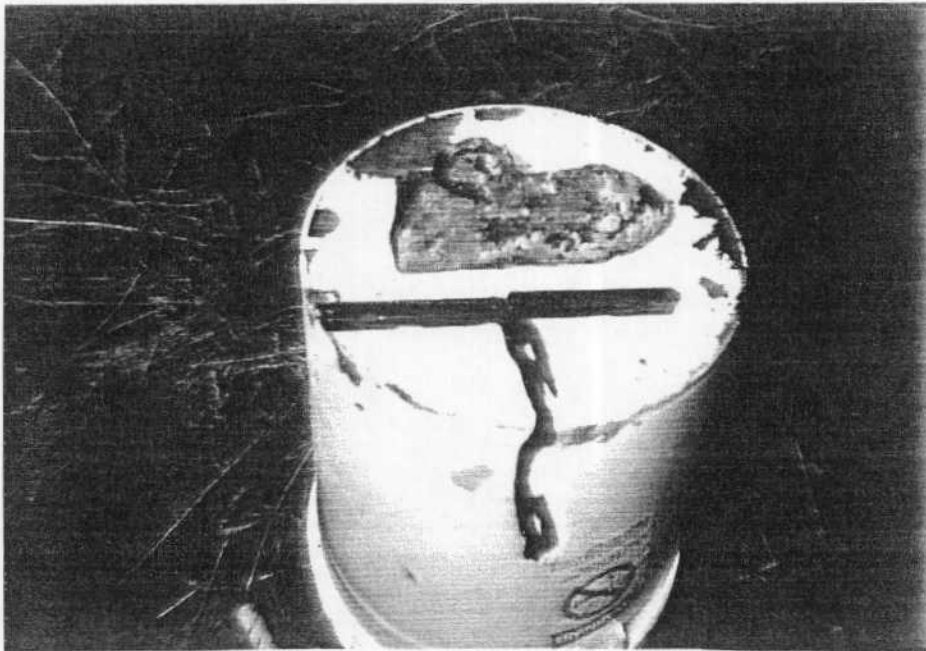
EAST AREA E



WEST AREA E



57mm AP-T - AREA E



57mm HE/57mm APHE





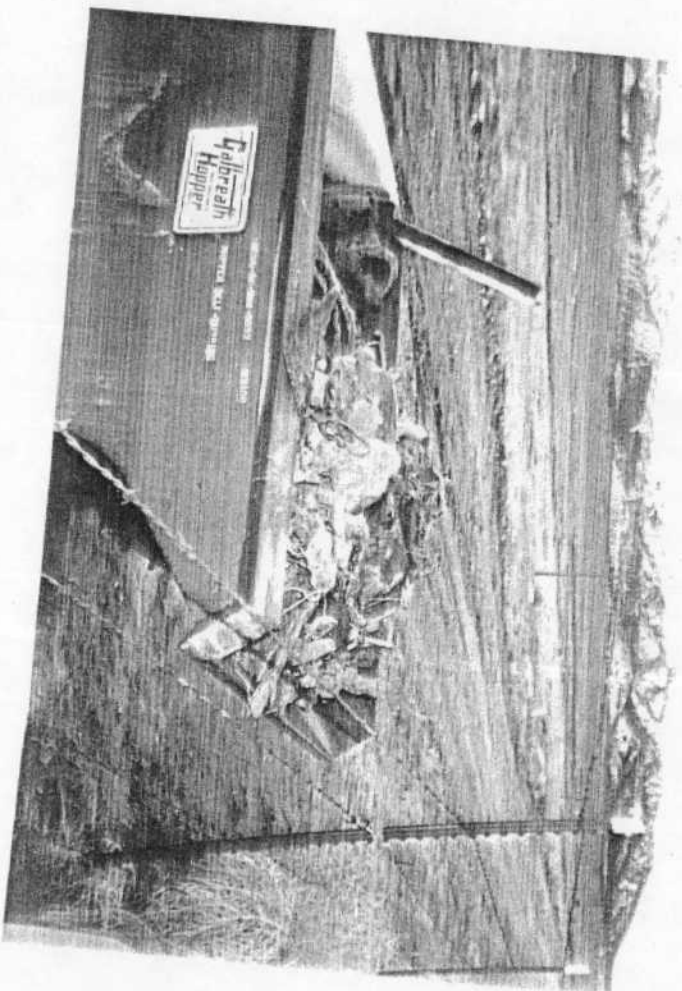
37mm HE



UXO SCRAP



SCRAP



**ANNEX K**  
**Scope of Work**

NOV 23 '94 02:27PM USA COE HSV USAEDH-CT 2059551358

P.2/4

5000-019 Mods

## AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE

PAGE OF PAGE

1

1

AMENDMENT/MODIFICATION NO.  
0019022. EFFECTIVE DATE  
DEC 8 19944. REQUISITION/PURCHASE REQ. NO.  
US1RYO-4217-0073

3. PROJECT NO. (if applicable)

5. ISSUED BY

CODE

8027

7. ADMINISTERED BY (if other than item 6)

CODE

EMPTY

US ARMY ENG. DIV., HUMTSVILLE

ATTN: CEAND-CT-D/A. PRINCE

P.O. BOX 1600

HUMTSVILLE AL 35807-4301

Anita Prince

A23 (205)955-5634

6. NAME AND ADDRESS OF CONTRACTOR (Name, street, county, State and ZIP Code) Vendor ID: 00018767

UXB INTERNATIONAL, INC.

ATTN: GERALD C. KITZMILLER

14800 CONFERENCE CNTR DR, #100

CRANTILLY

VA 22021-3806

001

8A. AMENDMENT OF SOLICITATION NO.

9B. DATED (SEE ITEM 11)

10A. MODIFICATION OF CONTRACT/ORDER NO.

DACA87-93-D-0002

0019

10B. DATED (SEE ITEM 11)

08/18/94

CODE

52340

FACILITY CODE

## 11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing items 8 and 15, and returning \_\_\_\_\_ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (if required)

21420200000 085130

2340001C9643900811300

ENVR 01110

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS,  
IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(X) A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.

B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 42.105 (b).

C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:  
FAR 52.243-0003

D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☐ is not, ☒ is required to sign this document and return 1 copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

(a) The purpose of modification 02 to delivery order 0019 of contract DACA87-93-D-0002 is realign hours and funds; to add the requirement for the Remedial Action Safety Plan, add CLIN 0022AA, and delete CLINs 0008AA, 0016AA, and 0017AA.

(b) The delivery order value remains the same at \$443,872.32.

(c) To facilitate the posting of the above changes and to provide detailed information pertaining to the changes, ALL pages except page one of the delivery order are replaced. Lines in the margins indicate the beginning and ending of the changes.

Except as provided herein, all terms and conditions of the document referenced in item 6A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)

Gregory D. Armstrong, Exec VP

15B. CONTRACTOR/ORDER NO.

15C. DATE SIGNED

12-7-94

(Signature of person authorized to sign)

15A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)

Mary M. Dowling

15B. UNITED STATES OF AMERICA

BY Mary M. Dowling  
(Signature of Contracting Officer)

15C. DATE SIGNED

7 Dec 94

NSN 7540-01-152-8070

PREVIOUS EDITION UNUSABLE

30-105

STANDARD FORM 30 (REV. 10-83)  
Prescribed by GSA  
FAR (48 CFR) 53.243

SUPPLIES OR SERVICES AND PRICES/COSTS

ITEM	DESCRIPTION	QUANTITY	U/M	U/P	AMOUNT
0001	Material PR Number: W31RYO-4217-0073	1	LT	69095.760000	69095.76
0002	Travel & Per Diem PR Number: W31RYO-4217-0073	1	LT	164018.800000	164018.80
0003	Data per Section J - Not separately Priced. Applicable to all regions. PR Number: W31RYO-4217-0073	1	LT	0.000000	0.00
0005AA	Service - Certified Industrial Hygienist (W) PR Number: W31RYO-4217-0073	8	MH	52.590000	420.72
0010AA	Service - Quality Control Specialist (W) PR Number: W31RYO-4217-0073	16	MH	28.910000	462.56
0011AA	Service - Site Safety Officer (W) PR Number: W31RYO-4217-0073	220	MH	28.910000	6360.20
0012AA	Service - Project Manager (W) PR Number: W31RYO-4217-0073	100	MH	33.650000	3365.00
0013AA	Service - Senior Unexploded Ordnance Supervisor (W) PR Number: W31RYO-4217-0073	280	MH	33.650000	9422.00
0014AA	Service - Unexploded Ordnance Supervisor (W) PR Number: W31RYO-4217-0073	1920	MH	28.910000	55507.20
0015AA	Service - Unexploded Ordnance Specialist (W) PR Number: W31RYO-4217-0073	4320	MH	24.400000	105408.00
0018AA	Service - Surveyor (W) PR Number: W31RYO-4217-0073	280	MH	26.640000	7459.20
0019AA	Service - Rodman (W) PR Number: W31RYO-4217-0073	280	MH	20.530000	5748.40
0020AA	Service - Drafter I (W) PR Number: W31RYO-4217-0073	32	MH	21.140000	676.48
0022AA	Service - Magnetometer Operator (W)	800	MH	19.910000	15928.00

SCOPE OF WORK  
UNEXPLODED ORDNANCE (UXO) REMOVAL ACTION, PHASE II  
TOOELE ARMY DEPOT (TEAD), UTAH

18 OCTOBER 1994

1.0 BACKGROUND AND GENERAL STATEMENT OF WORK. The work required under this Scope of Work (SOW) falls under the Defense Environmental Restoration Program (DERP) - Installation Restoration (IR). Ordnance and Explosive Waste (OEW) contamination exists on private property as a result of Department of Defense Activities.

1.1 OEW is a safety hazard and constitutes an imminent and substantial endangerment to the local populace and site personnel. During this action, it is the government's intent that the contractor destroy on-site all OEW encountered. This action will be performed in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), Section 104, and the National Contingency Plan, Sections 300.120(c) and 300.400(e). In accordance with the above, no Federal, State, or Local permits are required nor will be obtained for on-site disposal of OEW. The provisions of 29CFR 1910.120 shall apply.

1.1.1 This project does not require an on-site full time contractor project manager as identified in Section C, subsection 3.1.1, of the basic contract.

1.1.2 Due to anticipated winter weather problems, this project shall be staffed with sufficient personnel to ensure project completion and demobilization by 08 December 1994.

1.2 Due to the inherent risk in this type of operation, the contractor shall be limited to a 40 hour work week: either 5 - 8 hour days or 4 - 10 hour days. UXO personnel shall not perform UXO-related tasks more than 10 hours a day.

1.3 GENERAL DESCRIPTION

1.3.1 Tooele Army Depot is located in northwest Utah approximately 35 miles west southwest of Salt Lake City. The installation contains approximately 24,732 acres. TEAD was established in 1942 and has been one of the major ammunition storage and equipment maintenance centers for the US Army in the ensuing years. The current mission of TEAD is to receive, store, issue, maintain, and dispose of munitions.

1.3.2 The following areas have been cleared to a depth of three (3) feet during previous projects:

1.3.2.1 Area A. Area A, which is 250 feet wide, extends 6400 feet to the east of the southwest corner of the installation.

1.3.2.2 Area B. Area B, which is 400 feet wide, extends 6800 feet to the north and 250 feet to the south of the southwest corner of the installation.

1.3.2.3 Area C. Area C, which begins 1200 feet to the north of the southwest corner of TEAD-N, is 250 feet wide and proceeds 4000 feet to the north.

1.3.2.4 Area D. Area D, which begins 1200 feet to the north of the southwest corner of TEAD-N, is 600 feet wide and proceeds 4000 feet to the north.

1.3.3 This SOW pertains to the areas to be cleared of OEW and scrap located outside the southern and western installation boundaries adjacent to the previously cleared areas (see Figure 1).

1.3.3.1 Area E. Area E, which is west of and adjacent to Area D, begins 1200 feet to the north of the southwest corner of TEAD-N, is 600 feet wide and proceeds 4000 feet to the north. Clearance of this area shall begin in the northeast corner of the area and shall proceed south and west. When two consecutive grids are completed with no ordnance or ordnance related scrap is found, the decision will be made to suspend or continue the clearance of this area. The decision to suspend clearance of this area and move to the next area will be made by the CEHND Project Manager based upon the recommendation of the CEHND on-site Safety Specialist.

1.3.3.2 Area F. Area F, which is adjacent to the north end of Areas C, D, and E and adjacent to the west boundary of Area B, begins 5200 feet to the north of the southwest corner of TEAD-N, is 1450 feet wide, and proceeds 1600 feet to the north. Clearance of this area shall begin in the southeast corner of the area and shall proceed north and west. When two consecutive grids are completed with no ordnance or ordnance related scrap is found, the decision will be made to suspend or continue the clearance of this area. The decision to suspend clearance of this area and move to the next area will be made by the CEHND Project Manager based upon the recommendation of the CEHND on-site Safety Specialist.

1.3.3.3 Area G. Area G, which is adjacent to the south end of Areas C and D, and to the west boundary of Area B, begins 1200 feet to the north of the southwest corner of TEAD-N, is 850 feet wide, and proceeds 500 feet to the south. Clearance of this area shall begin in the northeast corner of the area and shall proceed south and west. When two consecutive grids are completed with no ordnance or ordnance related scrap is found, the decision will be made to suspend or continue the clearance of this area. The decision to suspend clearance of this area and move to the next area will be made by the CEHND Project Manager based upon the recommendation of the CEHND on-site Safety Specialist.

1.3.3.4 Area H. Area H, which is adjacent to the south end of Area A, begins 250 feet south of the southwest corner of TEAD-N, is 200 feet wide and proceeds 6400 feet to the east of the southwest corner of the installation. Clearance of this area shall begin in the northwest corner of the area and shall proceed east and south. When two consecutive grids are completed with no ordnance or ordnance related scrap is found, the decision will be made to suspend or continue the clearance of this area. The decision to suspend clearance of this area and move to the next area will be made by the CEHND Project Manager based upon the recommendation of the CEHND on-site Safety Specialist.

1.3.3.5 Area I. Area I, which is adjacent to the north end of Area B, begins 6,800 feet north of the southwest corner of TEAD-N, is 400 feet wide and proceeds 500 feet to the north. Clearance of this area shall begin in the southeast corner of the area and shall proceed north and west. When two consecutive grids are completed with no ordnance or ordnance related scrap is found, the decision will be made to suspend or continue the clearance of this area. The decision to suspend clearance of this area and move to the next area will be made by the CEHND Project Manager based upon the recommendation of the CEHND on-site Safety Specialist.

1.3.3.6 At Tooele-South, the contractor will surface clear 50 acres to be located in the field by the CEHND Tooele-South.

1.3.4 Clearing these areas will be a relatively normal UXO clearance operation, entailing close supervision of the clearance crew. The areas have sparse vegetation and a minimal amount of vegetation removal will need to be accomplished. Gently rolling hills are located in the areas and should present no problems for this clean-up operation. This area has never been cleared and the contractor can expect to encounter all types of UXO.

1.3.5 The area within the southwest boundary fence consists of an Open Burn/Open Detonation (OB/OD) area and a former firing range. The OB/OD area has been used since the 1940s for various demilitarization activities, including the destruction of munitions and propellant burning. These activities occurred at sites within the installation boundaries.

1.3.6 A Site Survey was conducted by members of the Corps of Engineers, Huntsville Division. The site was found to be contaminated with OEW and non-OEW related scrap. The following items were found during the site survey and during previous clearance of adjacent areas: bomb components; 20mm, 37mm, 57mm, and 90mm HE projectiles; a large number of fuzes and adapter boosters; and a 155mm base ejection projectile.

1.4 DEFINITIONS. See Section C, subsection 2.3, of the basic



contract.

2.0 OBJECTIVE. The contractor shall safely locate, identify, and dispose of all UXO located on the site.

### 3.0 DESCRIPTION OF SERVICES.

3.1 TASK 1, SITE VISIT AND WORK PLAN (WP). This task shall be accomplished in accordance with Section C, subsection 3.2, of the basic contract.

3.1.1 Site Visit. The site visit team shall not exceed 2 persons, of which one shall be a qualified Senior UXO Supervisor, and shall not extend longer than 5 working days, including travel. The site visit shall include liaison visits and coordination with the following offices at TEAD: Provost Marshal, DRMO, Fire Department, Safety Office, Environmental Office, DOL (Ammo), and Medical Facility. Coordination shall also be made with the Federal Aviation Administration (FAA) to ensure local air clearance. No UXO related activities will be performed during the site visit. The contractor's WP shall be based on information provided in the WP for Phase I of this project (copy provided under separate cover).

3.1.2 Disposal Alternatives. Based on the site visit, the contractor shall describe feasible alternatives for disposal and recommend the safest and most cost effective method of treatment and disposal of the explosive ordnance, inert ordnance, explosives, and debris. This letter proposal shall be forwarded to the contracting officer (CO). The method of treatment will be selected and approved by the CO after which the contractor will then proceed with preparation of the WP.

3.1.3 Work Plan (WP). The contractor shall prepare and submit a site-specific WP to the Government for approval prior to beginning any UXO related activities on the site. The WP shall outline the contractor's proposed methodology for accomplishing the objective and following tasks. This shall include site specific training, UXO related procedures and practices, equipment, administrative area and equipment, demolition materials and their security and accountability system, personal protective equipment, internal and external communications systems, responsibilities of project personnel, resumes of all UXO personnel and key non-UXO personnel, on-site and off-site medical facilities and emergency response actions, daily work schedule, project time line, UXO safety and site general safety. All UXO related procedures shall comply with CEHND Safety Concepts and Basic Considerations for UXO. The WP shall include, as a minimum, the following sub-plans. See Section C, subsection 3.2.1, of the basic contract for detailed requirements.

3.1.3.1 UXO Operational Plan

3.1.3.2 Site-Specific Safety and Health Plan

3.1.3.3 Equipment Plan

3.1.3.4 Surveying and Mapping Plan

3.1.3.5 Environmental Protection Plan. See Section C, subsection 5.0, of the basic contract.

3.1.3.6 Quality Control Plan

3.1.3.7 Work, Data, and Cost Management Plan

3.1.3.8 Other subplans identified in Section C, subsection 3.2.1, of the basic contract are not required for this delivery order.

3.1.3.9 The target mobilization date for this project is 12 September 1994.

3.1.4 In addition to the WP and subplans required above, a brief, concise, separate document (the Remedial Action Safety Plan (RASP)) shall be prepared for submission with the WP. The RASP shall contain the following information and may reference chapters of the WP, when applicable.

3.1.4.1 Site location and description.

3.1.4.2 Projected removal action starting date.

3.1.4.2 Suspected items.

3.1.4.4 An assessment of the potential for migration of contamination and a description of the steps taken to halt such migration.

3.1.4.5 Precautions to be taken if toxic chemical agent items are accidentally discovered.

3.1.4.6 Name of UXO contractor.

3.1.4.7 An on-site detailed disposal plan.

3.1.4.8 A drawing of the site.

3.1.4.9 Location of the demolition area(s) as a potential explosive site and distances of potential exposed sites.

3.1.4.10 a summary of risk assessment and mitigating features at demolition areas

3.1.4.11 When it is applicable, the off-site disposal plan will include the following specific information: how the off-site disposal will be accomplished; who will perform the actual off-site disposal;

the off-site disposal location; transportation procedures; and the expected results of the disposal action.

3.1.4.12 Identify the basic contract and the delivery order.

3.2 TASK 2: PERFORM COMMUNITY RELATIONS. This task shall be accomplished in accordance with Section C, subsection 3.2.3, of the basic contract.

3.2.1 The contractor shall assist, if requested, in arranging a local public meeting to inform the public of the purpose of this clearance, the procedures to be followed, and the cooperation requested.

3.2.2 All press releases and media appearances shall be coordinated with and approved by the Public Affairs Officer (PAO), TEAD.

3.2.3 A written record of the public meeting attendees, questions, and answers shall be provided as part of the final report.

3.2.4 Public Affairs. The contractor shall not make available or publicly disclose any data generated or reviewed under this contract or any subcontract unless specifically authorized by the Contracting Officer (CO) and the TEAD PAO. When approached by any person or entity requesting information about the subject of this contract, the contractor shall defer to PAO for response. Reports and data generated under this contract shall become the property of the Government and distribution to any other source by the contractor is prohibited unless authorized by the CO.

3.3 TASK 3: PERFORM LOCATION SURVEYS AND MAPPING

3.3.1 All surveying or mapping crews shall be escorted by an UXO Supervisor. A magnetometer shall be used to survey the location for the establishment of any monuments or markers.

3.3.2 The contractor shall survey and establish the boundaries of areas stated under subsection 1.3 of this SOW. The contractor shall mark the corners and outer edges of the designated areas with stakes or other visible temporary markers. Coordinates of the corners of each area being investigated shall be provided and shall be referenced to both the North American Datum of 1983 (NAD83) and to the Utah State Plane Grid System. In addition, each hit shall be located in the field to the closest fool and shall be plotted and identified on the map. A tabulation of each hit shall be provided showing the identification number, the coordinates referenced to NAD83, and the description of any item found. In cases of multiple hits within a small area, the coordinates of the edges of the area may be shown.

3.3.3 Items and data to be submitted to CEHND as part of this task are as follows:

3.3.3.1 Field Survey. The original copy of all field books, layout sheets, computation sheets, abstracts, and computer printouts shall be suitably bound, and clearly marked and identified.

3.3.3.2 A tabulated list of all control points showing the adjusted coordinates established and/or used for this survey.

3.3.3.3 A tabulated list of all hits located in the field showing the data identified in paragraph 3.3.2 above.

3.3.3.4 A "Report of Establishment of Survey Mark" (Description Card) on each control point established and/or used for surveying. The description cards shall be 5" x 8" (12.7mm x 20.3mm) with one description per card. In addition to the name or ID number of the control points, the cards should show the adjusted coordinates, a written description for locating the control points, and sketch showing how to locate the control points.

3.3.3.5 Drawings. The contractor shall provide a planimetric or topographic map(s) of the project site and areas being investigated. The map(s) shall be drawn at a scale no smaller than 1 inch = 200 feet (1:2400) on reproducible (mylar) drawings and show each area investigated. Each map(s) shall also include a grid north arrow and a magnetic north arrow with the difference between them, grid lines and tic marks in feet at systematic intervals with their grid values shown on the edges of the map(s), a legend showing standard symbols used for mapping, and a map index showing the site in relationship to all other sites within the boundaries of the project site. One original and two blue line prints of each final drawing shall be delivered to CEHND.

3.3.4 Schedule. All work and services under this task shall be completed and submitted to CEHND no later than the submission of the draft Removal Report.

3.4 TASK 4: PERFORM OEW REMOVAL. This task shall be accomplished in accordance with Section C, subsection 3.2.4, of the basic contract.

3.4.1 The contractor shall provide all necessary personnel and equipment to perform surface and subsurface OEW clearance of the project site and dispose of all OEW on-site. This clearance action shall include all UXO related scrap and non-UXO related metallic scrap.

3.4.2 The contractor shall propose a planned, systematic approach to search and clear the project site that will result in optimum search effectiveness. This methodology shall be outlined in the WP.

3.4.3 During the subsurface operations, the contractor shall utilize a magnetometer capable of detecting a 75mm projectile at a depth of 3 feet. The contractor shall excavate to a depth of 4 feet to determine

the identity of all magnetic anomalies. If deeper excavation is required, the on-site CEHND Safety Specialist will make that decision.

3.4.3.1 Magnetometers shall be field tested daily to ensure they are operating properly. This shall be accomplished by burying an inert 75mm projectile or similar inert item to a depth of 3 feet and determining the standard indication. If a magnetometer does not meet the standard during the daily check, it shall be calibrated/repaired or replaced.

3.4.3.2 All access/excavation/detonation holes shall be backfilled. The contractor shall seed the backfilled areas with native vegetation or vegetation approved by the TEAD-N environmental personnel and the CO.

3.4.4 The contractor shall maintain a detailed accounting of all OEW items/components encountered. This accounting shall include the amounts of OEW, the identification and condition, depth located, disposition, and location/mapping. This accounting shall be a part of the Removal Report.

3.4.4.1 The accounting system shall also account for all demolition materials utilized to detonate OEW on-site.

3.4.4.2 The contractor shall comply with all TEAD regulations with regards to the issue, movement, and turn-in of demolition materials.

3.4.5 The contractor shall have a contingency plan in place to provide demolition materials in the event the government supply is depleted and/or resupply is not timely. This shall be outlined in the WP.

3.4.6 If a situation is encountered that precludes the contractor from detonating an UXO in-place, the on-site CEHND Safety Specialist will request EOD support.

3.4.7 Activities of this task shall be video taped in color using "Hi-grade" VHS tape. A total of 45 to 60 minutes of footage, with an oral background describing the activities, shall be submitted on a single tape cassette.

### 3.5 TASK 5: TURN-IN OF RECOVERED OEW RELATED AND NON-OEW RELATED SCRAP

3.5.1 This task shall be accomplished as per Section C, subsection 3.2.5, of the basic contract.

3.5.2 The contractor shall complete a DD Form 1348-1 as turn-in documentation. Instructions for completing this Form are contained in the Defense Utilization and Disposal Manual, DOD 4160.21-M. The Senior UXO Supervisor shall sign a certificate as follows:

"I certify that the property listed hereon has been inspected by me and, to the best of my knowledge and belief, contains no items of a dangerous nature."

3.5.3 DRMO turn-in documentation receipts shall be submitted as a component of the Removal Report.

### 3.6 TASK 6: PERFORM QUALITY CONTROL

3.6.1 The contractor shall administer a Quality Control (QC) program to manage, control, and document his own and his subcontractors activities. The methodology to accomplish this task shall be proposed in the WP. The QC activities shall be documented and included in the Removal Report.

3.6.2 The individual performing the UXO QC shall not be involved in the performance of Task 4 above. UXO QC shall be a separate function and is not envisioned as a full-time position. The UXO QC Specialist shall meet the minimum prerequisites as outlined in Section C, subsection 3.2.4.2.5, of the basic contract.

### 3.7 TASK 7: PREPARE AND SUBMIT REMOVAL REPORT

3.7.1 The contractor shall accomplish this task in accordance with Section C, subsection 3.2.7, of the basic contract.

3.7.2 The Final Removal Report shall consist of the following:

3.7.2.1 All original surveying and mapping data from Task 3.

3.7.2.2 Detailed accounting by listed area of all UXO and UXO related materials located and disposed of.

3.7.2.3 A system of daily journals of all activities associated with the SOW.

3.7.2.3.1 A daily journal for each area listed in subsection 1.3 shall be opened with the start of and closed with the completion of each area. Activities endemic to the specific listed area shall be recorded on a daily basis.

3.7.2.3.2 A daily journal for the site shall be opened upon first arrival for field operations and closed after contractor demobilization at the project site. It shall contain a daily record of which listed areas are active and of all other activities on site not endemic to any specific area.

3.7.2.4 A recapitulation of exposure data. This shall include total number of man-hours worked on site, total motor vehicle mileage, total number of flying hours, and number of flights.

3.7.2.5 QC documentation

3.7.2.6 All DRMO turn-in documentation

3.7.2.7 A minimum of 20 4" x 6" (10 x 15 cm) color photographs shall be included in the report depicting major action items and UXO discoveries. The original, Final Report furnished to CEHND shall include original photographic print. Photographs contained in draft submissions and copies of final submissions shall be color reproductions.

3.7.2.8 Public meeting written record.

3.7.2.9 A financial breakdown by area and task of all costs and labor hours used to perform this SOW.

3.7.2.10 Video Tapes. The contractor will provide two copies of video tapes, one each for CEHND-PM-OT and Tooele Army Depot.

3.7.2.11 The contractor will provide a planimetric map (at a scale no smaller than 1 inch = 200 feet (1:2400). Upon this map the contractor shall show location of search patterns and significant findings with respect to all surface features within the project area.

3.8 PERSONNEL QUALIFICATIONS AND JOB DESCRIPTIONS. The contractor shall furnish a staff that is qualified through education, training, and pertinent experience that shall accomplish the objective and tasks of this SOW. See Section C, subsection 3.2.4.2, of the basic contract.

4.0 SUBMITTALS. The contractor shall furnish copies of the plans, maps, and reports as identified in paragraph 4.1 to each addressee listed below in the quantities indicated. The contractor shall use express mail services for delivering these plans and reports. Following each submission, comments generated as a result of the review shall be incorporated.

ADDRESSEE	COPIES
US ARMY ENGINEER DIVISION, HUNTSVILLE ATTN: CEHND-PM-OT (MR. RAY LEONE) 106 WYNN DRIVE HUNTSVILLE, AL 35805-1957	10
US ARMY CORPS OF ENGINEERS SACRAMENTO DISTRICT ATTN: CESPK-MD-MM 1325 "J" STREET SACRAMENTO, CA 95814-2922	3

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COMMANDER  
TOOELE ARMY DEPOT  
ATTN: ENVIRONMENTAL OFFICE (MR. LARRY FISHER)  
TOOELE ARMY DEPOT, UTAH 84074-5000

4

COMMANDER  
548th ORD DET (EODCT)  
FT. LEWIS, WA 98433

2

#### 4.1 SUBMITTALS AND DUE DATES:

##### SUBMITTAL

##### DUE DATES

Disposal Feasibility Letter	5 days (after site visit)
Draft Work Plan	10 days (after site visit)
Final Work Plan	5 days (after receiving CEHND cmnts)
Draft Removal Report	60 days (after completion of field work)
Final Removal Report	15 days (after receiving CEHND cmnts)

4.2 Status Report and Telephone/Conversation Report are due monthly. The original of each of these reports shall be sent within 10 working days of the end of the reporting period by normal mail to:

US ARMY ENGINEER DIVISION, HUNTSVILLE  
ATTN: CEHND-PM-OT (MR. RAY LEONE)  
106 WYNN DRIVE  
HUNTSVILLE, AL 35805-1957

with a copy furnished to the same address:

ATTN: CEHND-CT-D (Anita Prince)

4.3 On the Monday following each work week, the contractor shall fax to the Huntsville Division Project Manager (PM) the production data for the previous week. This data will be presented in both tabular and graphic forms. The graphic presentation shall show total daily

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target productions, based on the rate of 1.1 acres/UXO clearing team/day versus actual daily productions. The tabular presentation shall show daily productions for individual UXO clearing team, the total production (based on 1.1 acres/UXO clearing team/day). In addition, the contractor shall, at the same time, fax to the Huntsville Division PM and provide a copy to the on-site safety specialist, a list showing numbers and types of OEW located during the previous week, the names of employees by work category, and the number of hours worked during the previous week.

4.4 Project Manager. The designated USAEDH Project Manager for this delivery order is Mr. Raymond Leone, Ordnance & Technical Programs Division, Directorate of Programs & Project Management; telephone (205)955-1243, fax (205)955-5788.

5.0 APPLICABLE REGULATIONS. See Section C, subsection 3.2.4.4, of the basic contract.

5.1 The following publication also applies:

5.1.1 AR 385-40 with USACE Supplements, Accident Reporting and Records.

6.0 GOVERNMENT FURNISHED

6.1 Pertinent UXO Technical publications as required. (CEHND)

6.2 Equipment

6.2.1 Magnetometers

6.2.2 Radios

6.2.3 Demolition Materials

6.2.4 Approved Demolition Material Storage Facility

6.3 Rights of Entry

6.4 Work Plan for OEW Removal Project, Phase I, Tooele Army Depot, Utah

7.0 SPECIAL INSTRUCTIONS

7.1 29CFR 1926.100(a) requires personnel to wear protective helmets in areas where there is a possible danger of head injury from impact, from falling/flying objects, or from electrical shock and/or burns. During field activities on ordnance projects, hard hats need not be worn unless a head injury threat is present.

7.2 If a UXO is located within a grid during the final UXO QA search,


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the contractor will be required to, again, search the entire grid.

SEP 12 '94 01:28PM USA HSX USAEDH-CT 2059551358

P.2/35

5000-019 Mods

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE	PAGE OF PAGES 1 2
AMENDMENT/MODIFICATION NO. 001901		3. EFFECTIVE DATE 22 Sep 94	4. REQUISITION/PURCHASE REQ. NO. US1RYO-4236-0035		5. PROJECT NO. (if applicable)
6. ISSUED BY US ARMY ENG. DIV., MONTSEVILLE ATTN: CENND-CT-D/A. PRINCE P.O. BOX 1600 MONTSEVILLE AL 35807-4301 Anita Prince		CODE 8027	7. ADMINISTERED BY (if other than item 6) CODE EMPTY		
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)  UXB INTERNATIONAL, INC. ATTN: GERALD C. KITZMILLER 14800 CONFERENCE CNTR DR, #100 CHANTILLY VA 22021-3806			Vendor ID: 00018787	9A. AMENDMENT OF SOLICITATION NO.	
				9B. DATED (SEE ITEM 11)	
				10A. MODIFICATION OF CONTRACT/ORDER NO. DACAS7-93-D-0002 0019	
				10B. DATED (SEE ITEM 13) 08/18/94	
CODE 52360	FACILITY CODE				
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS					
<input type="checkbox"/> The above numbered solicitation is amended as set forth in item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended, <input type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.					
12. ACCOUNTING AND APPROPRIATION DATA (if required) 21420200000 088130			2540001C9643900311300 ENVR 01110		
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.					
<input checked="" type="checkbox"/> A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.					
<input type="checkbox"/> B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 42.103 (a).					
<input checked="" type="checkbox"/> C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: FAR 52-243-0003					
<input type="checkbox"/> D. OTHER (Specify type of modification and authority)					
E. IMPORTANT: Contractor <input type="checkbox"/> is not <input checked="" type="checkbox"/> is required to sign this document and return <u>1</u> copies to the issuing office.					
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF action headings, including solicitation/contract subject matter where feasible.)					
(a) The purpose of modification 01 to delivery order 0019 of contract DACAS7-93-D-0002 is to fund tasks two through seven and to change selected parts of the statement of work.					
(b) The delivery order value is increased from \$13,581.74 by \$430,290.58 to \$443,872.32.					
(c) To facilitate the posting of the above changes and to provide detailed					
Exempt as provided herein, all terms and conditions of the document referenced in item 8A or 10A, as heretofore changed, remains unchanged and in full force and effect.					
15A. NAME AND TITLE OF SIGNER (Type or print) Gregory D. Huston			16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Denny Stuss		
15B. CONTRACTOR'S SIGNATURE (Signature of person authorized to sign)			16B. DATE SIGNED 9-12-94		16C. UNITED STATES OF AMERICA BY  (Signature of Contracting Officer)
					16C. DATE SIGNED 22 Sep 94

**SF 30 CONTINUATION SHEET**

information pertaining to the changes, ALL pages except page one of the delivery order are replaced. Lines in the margins indicate the beginning and ending of the changes.

SUPPLIES OR SERVICES AND PRICES/COSTS

ITEM	DESCRIPTION	QUANTITY	U/M	U/P	AMOUNT
0001	Material - Applicable to all regions PR Number: W31RYO-4217-0073	1	LT	61019.200000	61019.20
0002	Travel and Per Diem - Applicable to all regions PR Number: W31RYO-4217-0073	1	LT	164018.800000	164018.80
0003	Data per Section J - Not separately Priced. Applicable to all regions. PR Number: W31RYO-4217-0073	1	LT	0.000000	0.00
0005AA	Service - Certified Industrial Hygienist (W) PR Number: W31RYO-4217-0073	8	MH	52.590000	420.72
0008AA	Service - Environmental Engineer (W) PR Number: W31RYO-4217-0073	8	MH	44.170000	353.36
0010AA	Service - Quality Control Specialist (W) PR Number: W31RYO-4217-0073	67	MH	28.910000	1936.97
0011AA	Service - Site Safety Officer (W) PR Number: W31RYO-4217-0073	220	MH	28.910000	6360.20
0012AA	Service - Project Manager (W) PR Number: W31RYO-4217-0073	359	MH	33.650000	12080.35
0013AA	Service - Senior Unexploded Ordnance Supervisor (W) PR Number: W31RYO-4217-0073	352	MH	33.650000	11844.80
0014AA	Service - Unexploded Ordnance Supervisor (W) PR Number: W31RYO-4217-0073	1632	MH	28.910000	47181.12
0015AA	Service - Unexploded Ordnance Specialist (W) PR Number: W31RYO-4217-0073	2448	MH	24.400000	59731.20
0016AA	Service - Unexploded Ordnance Assistant (W) PR Number: W31RYO-4217-0073	2448	MH	22.160000	54247.68
0017AA	Service - Laborer (W) PR Number: W31RYO-4217-0073	204	MH	18.340000	3741.36

<u>ITEM</u>	<u>DESCRIPTION</u>	<u>QUANTITY</u>	<u>U/M</u>	<u>U/P</u>	<u>AMOUNT</u>
0018AA	Service - Surveyor (W) PR Number: W31RYO-4217-0073	408	MH	26.640000	10869.12
0019AA	Service - Rodman (W) PR Number: W31RYO-4217-0073	408	MH	20.530000	8376.24
0020AA	Service - Drafter I (W) PR Number: W31RYO-4217-0073	80	MH	21.140000	1691.20

SCOPE OF WORK  
UNEXPLODED ORDNANCE (UXO) REMOVAL ACTION, PHASE II  
TOOELE ARMY DEPOT (TEAD), UTAH

05 AUGUST 1994

1.0 BACKGROUND AND GENERAL STATEMENT OF WORK. The work required under this Scope of Work (SOW) falls under the Defense Environmental Restoration Program (DERP) - Installation Restoration (IR). Ordnance and Explosive Waste (OEW) contamination exists on private property as a result of Department of Defense Activities.

1.1 OEW is a safety hazard and constitutes an imminent and substantial endangerment to the local populace and site personnel. During this action, it is the government's intent that the contractor destroy on-site all OEW encountered. This action will be performed in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), Section 104, and the National Contingency Plan, Sections 300.120(c) and 300.400(e). In accordance with the above, no Federal, State, or Local permits are required nor will be obtained for on-site disposal of OEW. The provisions of 29CFR 1910.120 shall apply.

1.1.1 This project does not require an on-site full time contractor project manager as identified in Section C, subsection 3.1.1, of the basic contract.

1.1.2 Due to anticipated winter weather problems, this project shall be staffed with sufficient personnel to ensure project completion and demobilization by 23 November 1994.

1.2 Due to the inherent risk in this type of operation, the contractor shall be limited to a 40 hour work week: either 5 - 8 hour days or 4 - 10 hour days. UXO personnel shall not perform UXO-related tasks more than 10 hours a day.

1.3 GENERAL DESCRIPTION

1.3.1 Tooele Army Depot is located in northwest Utah approximately 35 miles west southwest of Salt Lake City. The installation contains approximately 24,732 acres. TEAD was established in 1942 and has been one of the major ammunition storage and equipment maintenance centers for the US Army in the ensuing years. The current mission of TEAD is to receive, store, issue, maintain, and dispose of munitions.

1.3.2 The following areas have been cleared to a depth of three (3) feet during previous projects:

1.3.2.1 Area A. Area A, which is 250 feet wide, extends 6400 feet to the east of the southwest corner of the installation.

1.3.2.2 Area B. Area B, which is 400 feet wide, extends 6800 feet to the north and 250 feet to the south of the southwest corner of the installation.

1.3.2.3 Area C. Area C, which begins 1200 feet to the north of the southwest corner of TEAD-N, is 250 feet wide and proceeds 4000 feet to the north.

1.3.2.4 Area D. Area D, which begins 1200 feet to the north of the southwest corner of TEAD-N, is 600 feet wide and proceeds 4000 feet to the north.

1.3.3 This SOW pertains to the areas to be cleared of OEW and scrap located outside the southern and western installation boundaries adjacent to the previously cleared areas (see Figure 1).

1.3.3.1 Area E. Area E, which is west of and adjacent to Area D, begins 1200 feet to the north of the southwest corner of TEAD-N, is 600 feet wide and proceeds 4000 feet to the north. Clearance of this area shall begin in the northeast corner of the area and shall proceed south and west. When two consecutive grids are completed with no ordnance or ordnance related scrap is found, the decision will be made to suspend or continue the clearance of this area. The decision to suspend clearance of this area and move to the next area will be made by the CEHND Project Manager based upon the recommendation of the CEHND on-site Safety Specialist.

1.3.3.2 Area F. Area F, which is adjacent to the north end of Areas C, D, and E and adjacent to the west boundary of Area B, begins 5200 feet to the north of the southwest corner of TEAD-N, is 1450 feet wide, and proceeds 1600 feet to the north. Clearance of this area shall begin in the southeast corner of the area and shall proceed north and west. When two consecutive grids are completed with no ordnance or ordnance related scrap is found, the decision will be made to suspend or continue the clearance of this area. The decision to suspend clearance of this area and move to the next area will be made by the CEHND Project Manager based upon the recommendation of the CEHND on-site Safety Specialist.

1.3.3.3 Area G. Area G, which is adjacent to the south end of Areas C and D, and to the west boundary of Area B, begins 1200 feet to the north of the southwest corner of TEAD-N, is 850 feet wide, and proceeds 500 feet to the south. Clearance of this area shall begin in the northeast corner of the area and shall proceed south and west. When two consecutive grids are completed with no ordnance or ordnance related scrap is found, the decision will be made to suspend or continue the clearance of this area. The decision to suspend clearance of this area and move to the next area will be made by the CEHND Project Manager based upon the recommendation of the CEHND on-site Safety Specialist.



1.3.3.4 Area H. Area H, which is adjacent to the south end of Area A, begins 250 feet south of the southwest corner of TEAD-N, is 200 feet wide and proceeds 6400 feet to the east of the southwest corner of the installation. Clearance of this area shall begin in the northwest corner of the area and shall proceed east and south. When two consecutive grids are completed with no ordnance or ordnance related scrap is found, the decision will be made to suspend or continue the clearance of this area. The decision to suspend clearance of this area and move to the next area will be made by the CEHND Project Manager based upon the recommendation of the CEHND on-site Safety Specialist.

1.3.3.5 Area I. Area I, which is adjacent to the north end of Area B, begins 6,800 feet north of the southwest corner of TEAD-N, is 400 feet wide and proceeds 500 feet to the north. Clearance of this area shall begin in the southeast corner of the area and shall proceed north and west. When two consecutive grids are completed with no ordnance or ordnance related scrap is found, the decision will be made to suspend or continue the clearance of this area. The decision to suspend clearance of this area and move to the next area will be made by the CEHND Project Manager based upon the recommendation of the CEHND on-site Safety Specialist.

1.3.3.6 At Tooele-South, the contractor will surface clear 50 acres to be located in the field by the CEHND Tooele-South.

1.3.4 Clearing these areas will be a relatively normal UXO clearance operation, entailing close supervision of the clearance crew. The areas have sparse vegetation and a minimal amount of vegetation removal will need to be accomplished. Gently rolling hills are located in the areas and should present no problems for this clean-up operation. This area has never been cleared and the contractor can expect to encounter all types of UXO.

1.3.5 The area within the southwest boundary fence consists of an Open Burn/Open Detonation (OB/OD) area and a former firing range. The OB/OD area has been used since the 1940s for various demilitarization activities, including the destruction of munitions and propellant burning. These activities occurred at sites within the installation boundaries.

1.3.6 A Site Survey was conducted by members of the Corps of Engineers, Huntsville Division. The site was found to be contaminated with OEW and non-OEW related scrap. The following items were found during the site survey and during previous clearance of adjacent areas: bomb components; 20mm, 37mm, 57mm, and 90mm HE projectiles; a large number of fuzes and adapter boosters; and a 155mm base ejection projectile.

1.4 DEFINITIONS. See Section C, subsection 2.3, of the basic

contract.

2.0 OBJECTIVE. The contractor shall safely locate, identify, and dispose of all UXO located on the site.

### 3.0 DESCRIPTION OF SERVICES.

3.1 TASK 1, SITE VISIT AND WORK PLAN (WP). This task shall be accomplished in accordance with Section C, subsection 3.2, of the basic contract.

3.1.1 Site Visit. The site visit team shall not exceed 2 persons, of which one shall be a qualified Senior UXO Supervisor, and shall not extend longer than 5 working days, including travel. The site visit shall include liaison visits and coordination with the following offices at TEAD: Provost Marshal, DRMO, Fire Department, Safety Office, Environmental Office, DOL (Ammo), and Medical Facility. Coordination shall also be made with the Federal Aviation Administration (FAA) to ensure local air clearance. No UXO related activities will be performed during the site visit. The contractor's WP shall be based on information provided in the WP for Phase I of this project (copy provided under separate cover).

3.1.2 Disposal Alternatives. Based on the site visit, the contractor shall describe feasible alternatives for disposal and recommend the safest and most cost effective method of treatment and disposal of the explosive ordnance, inert ordnance, explosives, and debris. This letter proposal shall be forwarded to the contracting officer (CO). The method of treatment will be selected and approved by the CO after which the contractor will then proceed with preparation of the WP.

3.1.3 Work Plan (WP). The contractor shall prepare and submit a site-specific WP to the Government for approval prior to beginning any UXO related activities on the site. The WP shall outline the contractor's proposed methodology for accomplishing the objective and following tasks. This shall include site specific training, UXO related procedures and practices, equipment, administrative area and equipment, demolition materials and their security and accountability system, personal protective equipment, internal and external communications systems, responsibilities of project personnel, resumes of all UXO personnel and key non-UXO personnel, on-site and off-site medical facilities and emergency response actions, daily work schedule, project time line, UXO safety and site general safety. All UXO related procedures shall comply with CEHND Safety Concepts and Basic Considerations for UXO. The WP shall include, as a minimum, the following sub-plans. See Section C, subsection 3.2.1, of the basic contract for detailed requirements.

3.1.3.1 UXO Operational Plan

3.1.3.2 Site-Specific Safety and Health Plan

3.1.3.3 Equipment Plan

3.1.3.4 Surveying and Mapping Plan

3.1.3.5 Environmental Protection Plan. See Section C, subsection 5.0, of the basic contract.

3.1.3.6 Quality Control Plan

3.1.3.7 Work, Data, and Cost Management Plan

3.1.3.8 Other subplans identified in Section C, subsection 3.2.1, of the basic contract are not required for this delivery order.

3.1.3.9 The target mobilization date for this project is 12 September 1994.

3.2 TASK 2: PERFORM COMMUNITY RELATIONS. This task shall be accomplished in accordance with Section C, subsection 3.2.3, of the basic contract.

3.2.1 The contractor shall assist, if requested, in arranging a local public meeting to inform the public of the purpose of this clearance, the procedures to be followed, and the cooperation requested.

3.2.2 All press releases and media appearances shall be coordinated with and approved by the Public Affairs Officer (PAO), TEAD.

3.2.3 A written record of the public meeting attendees, questions, and answers shall be provided as part of the final report.

3.2.4 Public Affairs. The contractor shall not make available or publicly disclose any data generated or reviewed under this contract or any subcontract unless specifically authorized by the Contracting Officer (CO) and the TEAD PAO. When approached by any person or entity requesting information about the subject of this contract, the contractor shall defer to PAO for response. Reports and data generated under this contract shall become the property of the Government and distribution to any other source by the contractor is prohibited unless authorized by the CO.

3.3 TASK 3: PERFORM LOCATION SURVEYS AND MAPPING

3.3.1 All surveying or mapping crews shall be escorted by an UXO Supervisor. A magnetometer shall be used to survey the location for the establishment of any monuments or markers.

3.3.2 The contractor shall survey and establish the boundaries of areas stated under subsection 1.3 of this SOW. The contractor shall mark the corners and outer edges of the designated areas with stakes

or other visible temporary markers. Coordinates of the corners of each area being investigated shall be provided and shall be referenced to both the North American Datum of 1983 (NAD83) and to the Utah State Plane Grid System. In addition, each hit shall be located in the field to the closest fool and shall be plotted and identified on the map. A tabulation of each hit shall be provided showing the identification number, the coordinates referenced to NAD83, and the description of any item found. In cases of multiple hits within a small area, the coordinates of the edges of the area may be shown.

3.3.3 Items and data to be submitted to CEHND as part of this task are as follows:

3.3.3.1 Field Survey. The original copy of all field books, layout sheets, computation sheets, abstracts, and computer printouts shall be suitably bound, and clearly marked and identified.

3.3.3.2 A tabulated list of all control points showing the adjusted coordinates established and/or used for this survey.

3.3.3.3 A tabulated list of all hits located in the field showing the data identified in paragraph 3.3.2 above.

3.3.3.4 A "Report of Establishment of Survey Mark" (Description Card) on each control point established and/or used for surveying. The description cards shall be 5" x 8" (12.7mm x 20.3mm) with one description per card. In addition to the name or ID number of the control points, the cards should show the adjusted coordinates, a written description for locating the control points, and sketch showing how to locate the control points.

3.3.3.5 Drawings. The contractor shall provide a planimetric or topographic map(s) of the project site and areas being investigated. The map(s) shall be drawn at a scale no smaller than 1 inch = 200 feet (1:2400) on reproducible (mylar) drawings and show each area investigated. Each map(s) shall also include a grid north arrow and a magnetic north arrow with the difference between them, grid lines and tic marks in feet at systematic intervals with their grid values shown on the edges of the map(s), a legend showing standard symbols used for mapping, and a map index showing the site in relationship to all other sites within the boundaries of the project site. One original and two blue line prints of each final drawing shall be delivered to CEHND.

3.3.4 Schedule. All work and services under this task shall be completed and submitted to CEHND no later than the submission of the draft Removal Report.

3.4 TASK 4: PERFORM OEW REMOVAL. This task shall be accomplished in accordance with Section C, subsection 3.2.4, of the basic contract.

3.4.1 The contractor shall provide all necessary personnel and equipment to perform surface and subsurface OEW clearance of the project site and dispose of all OEW on-site. This clearance action shall include all UXO related scrap and non-UXO related metallic scrap.

3.4.2 The contractor shall propose a planned, systematic approach to search and clear the project site that will result in optimum search effectiveness. This methodology shall be outlined in the WP.

3.4.3 During the subsurface operations, the contractor shall utilize a magnetometer capable of detecting a 75mm projectile at a depth of 3 feet. The contractor shall excavate to a depth of 3 feet to determine the identity of all magnetic anomalies. If deeper excavation is required, the on-site CEHND Safety Specialist will make that decision.

3.4.3.1 Magnetometers shall be field tested daily to ensure they are operating properly. This shall be accomplished by burying an inert 75mm projectile or similar inert item to a depth of 3 feet and determining the standard indication. If a magnetometer does not meet the standard during the daily check, it shall be calibrated/repairs or replaced.

3.4.3.2 All access/excavation/detonation holes shall be backfilled. The contractor shall seed the backfilled areas with native vegetation or vegetation approved by the TEAD-N environmental personnel and the CO.

3.4.4 The contractor shall maintain a detailed accounting of all OEW items/components encountered. This accounting shall include the amounts of OEW, the identification and condition, depth located, disposition, and location/mapping. This accounting shall be a part of the Removal Report.

3.4.4.1 The accounting system shall also account for all demolition materials utilized to detonate OEW on-site.

3.4.4.2 The contractor shall comply with all TEAD regulations with regards to the issue, movement, and turn-in of demolition materials.

3.4.5 The contractor shall have a contingency plan in place to provide demolition materials in the event the government supply is depleted and/or resupply is not timely. This shall be outlined in the WP.

3.4.6 If a situation is encountered that precludes the contractor from detonating an UXO in-place, the on-site CEHND Safety Specialist will request EOD support.

3.4.7 Activities of this task shall be video taped in color using "Hi-grade" VHS tape. A total of 45 to 60 minutes of footage, with an

oral background describing the activities, shall be submitted on a single tape cassette.

### 3.5 TASK 5: TURN-IN OF RECOVERED OEW RELATED AND NON-OEW RELATED SCRAP

3.5.1 This task shall be accomplished as per Section C, subsection 3.2.5, of the basic contract.

3.5.2 The contractor shall complete a DD Form 1348-1 as turn-in documentation. Instructions for completing this Form are contained in the Defense Utilization and Disposal Manual, DOD 4160.21-M. The Senior UXO Supervisor shall sign a certificate as follows:

"I certify that the property listed hereon has been inspected by me and, to the best of my knowledge and belief, contains no items of a dangerous nature."

3.5.3 DRMO turn-in documentation receipts shall be submitted as a component of the Removal Report.

### 3.6 TASK 6: PERFORM QUALITY CONTROL

3.6.1 The contractor shall administer a Quality Control (QC) program to manage, control, and document his own and his subcontractors activities. The methodology to accomplish this task shall be proposed in the WP. The QC activities shall be documented and included in the Removal Report.

3.6.2 The individual performing the UXO QC shall not be involved in the performance of Task 4 above. UXO QC shall be a separate function and is not envisioned as a full-time position. The UXO QC Specialist shall meet the minimum prerequisites as outlined in Section C, subsection 3.2.4.2.5, of the basic contract.

### 3.7 TASK 7: PREPARE AND SUBMIT REMOVAL REPORT

3.7.1 The contractor shall accomplish this task in accordance with Section C, subsection 3.2.7, of the basic contract.

3.7.2 The Final Removal Report shall consist of the following:

3.7.2.1 All original surveying and mapping data from Task 3.

3.7.2.2 Detailed accounting by listed area of all UXO and UXO related materials located and disposed of.

3.7.2.3 A system of daily journals of all activities associated with the SOW.

3.7.2.3.1 A daily journal for each area listed in subsection 1.3

shall be opened with the start of and closed with the completion of each area. Activities endemic to the specific listed area shall be recorded on a daily basis.

3.7.2.3.2 A daily journal for the site shall be opened upon first arrival for field operations and closed after contractor demobilization at the project site. It shall contain a daily record of which listed areas are active and of all other activities on site not endemic to any specific area.

3.7.2.4 A recapitulation of exposure data. This shall include total number of man-hours worked on site, total motor vehicle mileage, total number of flying hours, and number of flights.

3.7.2.5 QC documentation

3.7.2.6 All DRMO turn-in documentation

3.7.2.7 A minimum of 20 4" x 6" (10 x 15 cm) color photographs shall be included in the report depicting major action items and UXO discoveries. The original, Final Report furnished to CEHND shall include original photographic print. Photographs contained in draft submissions and copies of final submissions shall be color reproductions.

3.7.2.8 Public meeting written record.

3.7.2.9 A financial breakdown by area and task of all costs and labor hours used to perform this SOW.

3.7.2.10 Video Tapes. The contractor will provide two copies of video tapes, one each for CEHND-PM-OT and Tooele Army Depot.

3.7.2.11 The contractor will provide a planimetric map (at a scale no smaller than 1 inch = 200 feet (1:2400)). Upon this map the contractor shall show location of search patterns and significant findings with respect to all surface features within the project area.

3.8 PERSONNEL QUALIFICATIONS AND JOB DESCRIPTIONS. The contractor shall furnish a staff that is qualified through education, training, and pertinent experience that shall accomplish the objective and tasks of this SOW. See Section C, subsection 3.2.4.2, of the basic contract.

4.0 SUBMITTALS. The contractor shall furnish copies of the plans, maps, and reports as identified in paragraph 4.1 to each addressee listed below in the quantities indicated. The contractor shall use express mail services for delivering these plans and reports. Following each submission, comments generated as a result of the review shall be incorporated.

## ADDRESSEE

## COPIES

US ARMY ENGINEER DIVISION, HUNTSVILLE  
 ATTN: CEHND-PM-OT (MR. RAY LEONE)  
 106 WYNN DRIVE  
 HUNTSVILLE, AL 35805-1957 ,

5

US ARMY CORPS OF ENGINEERS  
 SACRAMENTO DISTRICT  
 ATTN: CESPK-MD-MM  
 1325 "J" STREET  
 SACRAMENTO, CA 95814-2922

3

COMMANDER  
 TOOEELE ARMY DEPOT  
 ATTN: ENVIRONMENTAL OFFICE (MR. LARRY FISHER)  
 TOOEELE ARMY DEPOT, UTAH 84074-5000

4

COMMANDER  
 548th ORD DET (EODCT)  
 FT. LEWIS, WA 98433

2

## 4.1 SUBMITTALS AND DUE DATES:

## SUBMITTAL

## DUE DATES

Disposal Feasibility Letter

5 days (after site visit)

Draft Work Plan

10 days (after site visit)

Final Work Plan

5 days (after receiving CEHND cmnts)

Draft Removal Report

60 days (after completion of field work)

Final Removal Report

15 days (after receiving CEHND cmnts)

4.2 Status Report and Telephone/Conversation Report are due monthly. The original of each of these reports shall be sent within 10 working days of the end of the reporting period by normal mail to:

US ARMY ENGINEER DIVISION, HUNTSVILLE  
 ATTN: CEHND-PM-OT (MR. RAY LEONE)

DACA87-93-D-0002  
 MOD 001901



106 WYNN DRIVE  
HUNTSVILLE, AL 35805-1957

with a copy furnished to the same address:

ATTN: CEHND-CT-D (Anita Prince)

4.3 On the Monday following each work week, the contractor shall fax to the Huntsville Division Project Manager (PM) the production data for the previous week. This data will be presented in both tabular and graphic forms. The graphic presentation shall show total daily target productions, based on the rate of 1.1 acres/UXO clearing team/day versus actual daily productions. The tabular presentation shall show daily productions for individual UXO clearing team, the total production (based on 1.1 acres/UXO clearing team/day). In addition, the contractor shall, at the same time, fax to the Huntsville Division PM and provide a copy to the on-site safety specialist, a list showing numbers and types of OEW located during the previous week, the names of employees by work category, and the number of hours worked during the previous week.

4.4 Project Manager. The designated USAEDH Project Manager for this delivery order is Mr. Raymond Leone, Ordnance & Technical Programs Division, Directorate of Programs & Project Management; telephone (205)955-1243, fax (205)955-5788.

5.0 APPLICABLE REGULATIONS. See Section C, subsection 3.2.4.4, of the basic contract.

5.1 The following publication also applies:

5.1.1 AR 385-40 with USACE Supplements, Accident Reporting and Records.

6.0 GOVERNMENT FURNISHED

6.1 Pertinent UXO Technical publications as required. (CEHND)

6.2 Equipment

6.2.1 Magnetometers

6.2.2 Radios

6.2.3 Demolition Materials

6.2.4 Approved Demolition Material Storage Facility

6.3 Rights of Entry

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MOD 001901

6.4 Work Plan for OEW Removal Project, Phase I, Tooele Army Depot,  
Utah

7.0 SPECIAL INSTRUCTIONS

7.1 29CFR 1926.100(a) requires personnel to wear protective helmets in areas where there is a possible danger of head injury from impact, from falling/flying objects, or from electrical shock and/or burns. During field activities on ordnance projects, hard hats need not be worn unless a head injury threat is present.

7.2 If a UXO is located within a grid during the final UXO QA search, the contractor will be required to, again, search the entire grid.

# ORDER FOR SUPPLIES & SERVICES

(Contractor must submit four copies of Invoice)

Form Approved  
OMB No. 1704-0187  
Expires Aug 31, 1992

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Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0187), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send your complete form to the procurement official identified in item 6.

1. CONTRACT/PURCH ORDER NO. DACAB7-93-D-0002		2. DELIVERY ORDER NO. 0019		3. DATE OF ORDER. 18 Aug 94		4. REQUISITION/PURCH REQUEST NO. M31RY0-4217-0073		5. PRIORITY									
6. ISSUED BY US ARMY ENG. DIV., HUNTSVILLE ATTN: CE4ND-CT-D/A. PRINCE P.O. BOX 1600 HUNTSVILLE AL 35807-4301 Anita Prince A23 (205)-955-5634				7. ADMINISTERED BY CODE EMPTY				8. DELIVERY FOB [X] DEST [ ] OTHER (See Schedule)									
9. CONTRACTOR Vendor Id: 00018787 CODE 52360				FACILITY CODE		10. DELIVER TO FOB POINT BY 12/23/94		11. MARK IF BUS. IS [ ] SMALL [ ] SMALL DIS-ADVANTAGED [ ] WOMEN-OWNED									
NAME AND ADDRESS LXD INTERNATIONAL, INC. ATTN: GERALD C. KITZMILLER 14800 CONFERENCE CNTR DR. #100 CHANTILLY VA 22021-3904				12. DISCOUNT TERMS 0 20 Net 0		13. MAIL INVOICES TO See Block 15											
14. SHIP TO CODE EMPTY DACAB793D0002/0019				15. PAYMENT WILL BE MADE BY US ARMY ENG. DIV., HUNTSVILLE ATTN: CE4ND-RH-F (EXAM) PO BOX 1600 HUNTSVILLE AL 35807-4301 CODE 4003				MARK ALL PACKAGES AND PAPERS WITH CONTRACT OR ORDER NUMBER									
16. DELIVERY [X] This delivery order is issued on another Government agency or in accordance with and subject to terms and conditions of above numbered contract.																	
PURCHASE [ ] Reference your furnish the following on terms specified herein.																	
ACCEPTANCE. THE CONTRACTOR HEREBY ACCEPTS THE OFFER REPRESENTED BY THE NUMBERED PURCHASE ORDER AS IT MAY PREVIOUSLY HAVE BEEN OR IS NOW MODIFIED, SUBJECT TO ALL OF THE TERMS AND CONDITIONS SET FORTH, AND AGREES TO PERFORM THE SAME.																	
<table border="0"> <tr> <td>NAME OF CONTRACTOR</td> <td>SIGNATURE</td> <td>TYPED NAME AND TITLE</td> <td>DATE SIGNED</td> </tr> <tr> <td><input type="checkbox"/> If this box is marked, supplier must sign Acceptance and return the following number of copies:</td> <td></td> <td></td> <td></td> </tr> </table>										NAME OF CONTRACTOR	SIGNATURE	TYPED NAME AND TITLE	DATE SIGNED	<input type="checkbox"/> If this box is marked, supplier must sign Acceptance and return the following number of copies:			
NAME OF CONTRACTOR	SIGNATURE	TYPED NAME AND TITLE	DATE SIGNED														
<input type="checkbox"/> If this box is marked, supplier must sign Acceptance and return the following number of copies:																	
17. ACCOUNTING AND APPROPRIATION DATA/LOCAL USE 21420200000 088130 2540001C9643900811300 ENVR 01110																	
18. ITEM NO.	19. SCHEDULE OF SUPPLIES/SERVICE	20. QUANTITY ORDERED/ACCEPTED	21. UNIT	22. UNIT PRICE	23. AMOUNT												
	This delivery order is for ordnance remediation at Tooele Army Depot, UT, is issued as a service order and is subject to the terms and conditions of the basic contract. Task one is to be completed with the obligated funds.																
If quantity accepted by the Government is same as quantity ordered, indicate by x. If different, enter actual quantity accepted below quantity ordered and encircle.		24. UNITED STATES OF AMERICA BY: Mary M. Darling 18 Aug 94 CONTRACTING/ORDERING OFFICER				25. TOTAL 13581.74											
26. QUANTITY IN COLUMN 20 HAS BEEN [ ] INSPECTED [ ] RECEIVED [ ] ACCEPTED AND CONFORMS TO THE CONTRACT EXCEPT AS NOTED		27. SHIP. NO.		28. D.O. VOUCHER NO.		29. DIFFERENCES											
DATE SIGNATURE OF AUTHORIZED GOVERNMENT REP.		[ ] PARTIAL [ ] FINAL		32. PAID BY		33. AMT VERIFIED CORRECT FO											
I certify this account is correct and proper for payment		31. PAYMENT [ ] COMPLETE [ ] PARTIAL [ ] FINAL				34. CHECK NUMBER											
DATE SIGNATURE AND TITLE OF CERTIFYING OFFICER						35. BILL OF LADING NO.											
37. REC'D AT	38. RECEIVED BY	39. DATE REC'D	40. TOTAL CONT.	41. S/R ACCOUNT NUMBER	42. S/R VOUCHER NO.												

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ITEM NO.	SCHEDULE OF SUPPLIES/SERVICE	QUANTITY	UNIT	UNIT-PRICE	AMOUNT
0001	Material - Applicable to all regions	1	LT	1541.100000	1541.1
0002	Travel and Per Diem - Applicable to all regions	1	LT	2728.000000	2728.0
0003	Data per Section J - Not separately Priced. Applicable to all regions.	1	LT	0.000000	0.0
0005AA	Service - Certified Industrial Hygienist (W)	A1 8	MH	52.590000	420.7
0008AA	Service - Environmental Engineer (W)	C1 8	MH	44.170000	353.2
10AA	Service - Quality Control Specialist (W)	E1 8	MH	28.910000	231.2
0011AA	Service - Site Safety Officer (W)	F1 8	MH	28.910000	231.2
0012AA	Service - Project Manager (W)	G1 160	MH	33.650000	5384.0
0013AA	Service - Senior Unexploded Ordnance Supervisor (W)	H1 80	MH	33.650000	2692.0

**SCOPE OF WORK**  
**UNEXPLODED ORDNANCE (UXO) REMOVAL ACTION, PHASE II**  
**TOOELE ARMY DEPOT (TEAD), UTAH**

05 AUGUST 1994

1.0 BACKGROUND AND GENERAL STATEMENT OF WORK. The work required under this Scope of Work (SOW) falls under the Defense Environmental Restoration Program (DERP) - Installation Restoration (IR). Ordnance and Explosive Waste (DEW) contamination exists on private property as a result of

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## UXB INTERNATIONAL, INC.

## Department of Defense Activities.

1.1 DEW is a safety hazard and constitutes an imminent and substantial endangerment to the local populace and site personnel. During this action, it is the government's intent that the contractor destroy on-site all DEW encountered. This action will be performed in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), Section 104, and the National Contingency Plan, Sections 300.120(c) and 300.400(e). In accordance with the above, no Federal, State, or Local permits are required nor will be obtained for on-site disposal of DEW. The provisions of 29CFR 1910.120 shall apply.

1.1.1 This project does not require an on-site full time contractor project manager as identified in Section C, subsection 3.1.1, of the basic contract.

1.1.2 Due to anticipated winter weather problems, this project shall be staffed with sufficient personnel to ensure project completion and demobilization by 23 November 1994.

1.2 Due to the inherent risk in this type of operation, the contractor shall be limited to a 40 hour work week: either 5 - 8 hour days or 4 - 10 hour days. UXO personnel shall not perform UXO-related tasks more than 10 hours a day.

## 1.3 GENERAL DESCRIPTION

1.3.1 Tooele Army Depot is located in northwest Utah approximately 33 miles west southwest of Salt Lake City. The installation contains approximately 24,732 acres. TEAD was established in 1942 and has been one of the major ammunition storage and equipment maintenance centers for the US Army in the ensuing years. The current mission of TEAD is to receive, store, issue, maintain, and dispose of munitions.

1.3.2 The following areas have been cleared to a depth of three (3) feet during previous projects:

1.3.2.1 Area A. Area A, which is 250 feet wide, extends 6400 feet to the east of the southwest corner of the installation.

1.3.2.2 Area B. Area B, which is 400 feet wide, extends 6800 feet to the north and 250 feet to the south of the southwest corner of the installation.

1.3.2.3 Area C. Area C, which begins 1200 feet to the north of the southwest corner of TEAD-N, is 250 feet wide and proceeds 4000 feet to the north.

1.3.2.4 Area D. Area D, which begins 1200 feet to the north of the southwest corner of TEAD-N, is 600 feet wide and proceeds 4000 feet to the

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north.

1.3.3 This SOW pertains to the areas to be cleared of OEW and scrap located outside the southern and western installation boundaries adjacent to the previously cleared areas (see Figure 1).

1.3.3.1 Area E. Area E, which is west of and adjacent to Area D, begins 1200 feet to the north of the southwest corner of TEAD-N, is 600 feet wide and proceeds 4000 feet to the north.

1.3.3.2 Area F. Area F, which is adjacent to the north end of Areas C, D, and E and adjacent to the west boundary of Area B, begins 5200 feet to the north of the southwest corner of TEAD-N, is 1450 feet wide, and proceeds 1600 feet to the north.

1.3.3.3 Area G. Area G, which is adjacent to the south end of Areas C and D, and to the west boundary of Area B, begins 1200 feet to the north of the southwest corner of TEAD-N, is 850 feet wide, and proceeds 500 feet to the south.

1.3.3.4 Area H. Area H, which is adjacent to the south end of Area A, is 200 feet wide and proceeds 6400 feet to the east of the southwest corner of the installation.

1.3.3.5 Area I. Area I, which is adjacent to the north end of Area B, begins 7050 feet north of the southwest corner of the installation, is 400 feet wide and proceeds 500 feet to the north.

1.3.3.6 At Tooele-South, the contractor will surface clear 40 acres to be located in the field by the CEHND Safety Specialist.

1.3.4 Clearing these areas will be a relatively normal UXO clearance operation, entailing close supervision of the clearance crew. The areas have sparse vegetation and a minimal amount of vegetation removal will need to be accomplished. Gently rolling hills are located in the areas and should present no problems for this clean-up operation. This area has never been cleared and the contractor can expect to encounter all types of UXO.

1.3.5 The area within the southwest boundary fence consists of an Open Burn/Open Detonation (OB/OD) area and a former firing range. The OB/OD area has been used since the 1940s for various demilitarization activities, including the destruction of munitions and propellant burning. These activities occurred at sites within the installation boundaries.

1.3.6 A Site Survey was conducted by members of the Corps of Engineers, Huntsville Division. The site was found to be contaminated with OEW and non-OEW related scrap. The following items were found during the site survey and during previous clearance of adjacent areas: bomb components; 20mm, 37mm, 57mm, and 90mm HE projectiles; a large number of fuzes and

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adapter boosters; and a 155mm base ejection projectile.

**1.4 DEFINITIONS.** See Section C, subsection 2.3, of the basic contract.

**2.0 OBJECTIVE.** The contractor shall safely locate, identify, and dispose of all UXO located on the site.

**3.0 DESCRIPTION OF SERVICES.**

**3.1 TASK 1, SITE VISIT AND WORK PLAN (WP).** This task shall be accomplished in accordance with Section C, subsection 3.2, of the basic contract.

**3.1.1 Site Visit.** The site visit team shall not exceed 2 persons, of which one shall be a qualified Senior UXO Supervisor, and shall not extend longer than 5 working days, including travel. The site visit shall include liaison visits and coordination with the following offices at TEAD: Provost Marshal, DRMO, Fire Department, Safety Office, Environmental Office, DOL (Ammo), and Medical Facility. Coordination shall also be made with the Federal Aviation Administration (FAA) to ensure local air clearance. No UXO related activities will be performed during the site visit. The contractor's WP shall be based on information provided in the WP for Phase I of this project (copy provided under separate cover).

**3.1.2 Disposal Alternatives.** Based on the site visit, the contractor shall describe feasible alternatives for disposal and recommend the safest and most cost effective method of treatment and disposal of the explosive ordnance, inert ordnance, explosives, and debris. This letter proposal shall be forwarded to the contracting officer (CO). The method of treatment will be selected and approved by the CO after which the contractor will then proceed with preparation of the WP.

**3.1.3 Work Plan (WP).** The contractor shall prepare and submit a site-specific WP to the Government for approval prior to beginning any UXO related activities on the site. The WP shall outline the contractor's proposed methodology for accomplishing the objective and following tasks. This shall include site specific training, UXO related procedures and practices, equipment, administrative area and equipment, demolition materials and their security and accountability system, personal protective equipment, internal and external communications systems, responsibilities of project personnel, resumes of all UXO personnel and key non-UXO personnel, on-site and off-site medical facilities and emergency response actions, daily work schedule, project time line, UXO safety and site general safety. All UXO related procedures shall comply with CEHND Safety Concepts and Basic Considerations for UXO. The WP shall include, as a minimum, the following sub-plans. See Section C, subsection 3.2.1, of the basic contract for detailed requirements.

**3.1.3.1 UXO Operational Plan**

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3.1.3.2 Site-Specific Safety and Health Plan

3.1.3.3 Equipment Plan

3.1.3.4 Surveying and Mapping Plan

3.1.3.5 Environmental Protection Plan. See Section C, subsection 5.0, of the basic contract.

3.1.3.6 Quality Control Plan

3.1.3.7 Work, Data, and Cost Management Plan

3.1.3.8 Other subplans identified in Section C, subsection 3.2.1, of the basic contract are not required for this delivery order.

3.1.3.9 The target mobilization date for this project is 12 September 1994.

3.2 TASK 2: PERFORM COMMUNITY RELATIONS. This task shall be accomplished in accordance with Section C, subsection 3.2.3, of the basic contract.

3.2.1 The contractor shall assist, if requested, in arranging a local public meeting to inform the public of the purpose of this clearance, the procedures to be followed, and the cooperation requested.

3.2.2 All press releases and media appearances shall be coordinated with and approved by the Public Affairs Officer (PAO), TEAD.

3.2.3 A written record of the public meeting attendees, questions, and answers shall be provided as part of the final report.

3.2.4 Public Affairs. The contractor shall not make available or publicly disclose any data generated or reviewed under this contract or any subcontract unless specifically authorized by the Contracting Officer (CO) and the TEAD PAO. When approached by any person or entity requesting information about the subject of this contract, the contractor shall defer to PAO for response. Reports and data generated under this contract shall become the property of the Government and distribution to any other source by the contractor is prohibited unless authorized by the CO.

3.3 TASK 3: PERFORM LOCATION SURVEYS AND MAPPING

3.3.1 All surveying or mapping crews shall be escorted by an UXO Supervisor. A magnetometer shall be used to survey the location for the establishment of any monuments or markers.

3.3.2 As needed, the contractor shall survey and establish the boundaries of areas stated under subsection 1.3 of this SOW. The contractor shall mark the corners and outer edges of the designated areas with stakes or



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other visible temporary markers.

**3.3.3** Items and data to be submitted to CEHND as part of this task are as follows:

**3.3.3.1** A tabulated list of all control points showing the adjusted coordinates established and/or used for this survey.

**3.3.3.2** A "Report of Establishment of Survey Mark" (Description Card) on each control point established and/or used for surveying. The Description Cards shall be 5" x 8" (12.7mm x 20.3mm) with one description per card. In addition to the name or ID number of the control points, the cards should show the adjusted coordinates, a written description for locating the control points, and a sketch showing how to locate the control points.

**3.3.3.3** Drawings. All maps shall be drawn as a scale no smaller than 1 inch = 200 feet (1:2400) on reproducible (mylar) drawings. One original and two blue line prints of each final drawing shall be delivered to CEHND.

**3.3.4** Schedule. All work and services under this task shall be completed and submitted to CEHND no later than the submission of the draft Removal Report.

**3.4 TASK 4: PERFORM DEW REMOVAL.** This task shall be accomplished in accordance with Section C, subsection 3.2.4, of the basic contract.

**3.4.1** The contractor shall provide all necessary personnel and equipment to perform surface and subsurface DEW clearance of the project site and dispose of all DEW on-site. This clearance action shall include all UXO related scrap and non-UXO related metallic scrap.

**3.4.2** The contractor shall propose a planned, systematic approach to search and clear the project site that will result in optimum search effectiveness. This methodology shall be outlined in the WP.

**3.4.3** During the subsurface operations, the contractor shall utilize a magnetometer capable of detecting a 75mm projectile at a depth of 3 feet. The contractor shall excavate to a depth of 3 feet to determine the identity of all magnetic anomalies. If deeper excavation is required, the on-site CEHND Safety Specialist will make that decision.

**3.4.3.1** Magnetometers shall be field tested daily to ensure they are operating properly. This shall be accomplished by burying an inert 75mm projectile or similar inert item to a depth of 3 feet and determining the standard indication. If a magnetometer does not meet the standard during the daily check, it shall be calibrated/repared or replaced.

**3.4.3.2** All access/excavation/detonation holes shall be backfilled. The contractor shall seed the backfilled areas with native vegetation or vegetation approved by the TEAD-N environmental personnel and the CO.

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3.4.4 The contractor shall maintain a detailed accounting of all DEW items/components encountered. This accounting shall include the amounts of DEW, the identification and condition, depth located, disposition, and location/mapping. This accounting shall be a part of the Removal Report.

3.4.4.1 The accounting system shall also account for all demolition materials utilized to detonate DEW on-site.

3.4.4.2 The contractor shall comply with all TEAD regulations with regards to the issue, movement, and turn-in of demolition materials.

3.4.5 The contractor shall have a contingency plan in place to provide demolition materials in the event the government supply is depleted and/or resupply is not timely. This shall be outlined in the WP.

3.4.6 If a situation is encountered that precludes the contractor from detonating an UXO in-place, the on-site CEHND Safety Specialist will request EOD support.

3.4.7 Activities of this task shall be video taped in color using "Hi-grade" VHS tape. A total of 45 to 60 minutes of footage, with an oral background describing the activities, shall be submitted on a single tape cassette.

3.5 TASK 5: TURN-IN OF RECOVERED DEW RELATED AND NON-DEW RELATED SCRAP

3.5.1 This task shall be accomplished as per Section C, subsection 3.2.5, of the basic contract.

3.5.2 The contractor shall complete a DD Form 1348-1 as turn-in documentation. Instructions for completing this Form are contained in the Defense Utilization and Disposal Manual, DOD 4160.21-M. The Senior UXO Supervisor shall sign a certificate as follows:

"I certify that the property listed hereon has been inspected by me and, to the best of my knowledge and belief, contains no items of a dangerous nature."

3.5.3 DRMO turn-in documentation receipts shall be submitted as a component of the Removal Report.

3.6 TASK 6: PERFORM QUALITY CONTROL

3.6.1 The contractor shall administer a Quality Control (QC) program to manage, control, and document his own and his subcontractors activities. The methodology to accomplish this task shall be proposed in the WP. The QC activities shall be documented and included in the Removal Report.

3.6.2 The individual performing the UXO QC shall not be involved in the

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## UXB INTERNATIONAL, INC.

performance of Task 4 above. UXO QC shall be a separate function and is not envisioned as a full-time position. The UXO QC Specialist shall meet the minimum prerequisites as outlined in Section C, subsection 3.2.4.2.5, of the basic contract.

**3.7 TASK 7: PREPARE AND SUBMIT REMOVAL REPORT**

3.7.1 The contractor shall accomplish this task in accordance with Section C, subsection 3.2.7, of the basic contract.

3.7.2 The Final Removal Report shall consist of the following:

3.7.2.1 All original surveying and mapping data from Task 3.

3.7.2.2 Detailed accounting by listed area of all UXO and UXO related materials located and disposed of.

3.7.2.3 A system of daily journals of all activities associated with the SOW.

3.7.2.3.1 A daily journal for each area listed in subsection 1.3 shall be opened with the start of and closed with the completion of each area. Activities endemic to the specific listed area shall be recorded on a daily basis.

3.7.2.3.2 A daily journal for the site shall be opened upon first arrival for field operations and closed after contractor demobilization at the project site. It shall contain a daily record of which listed areas are active and of all other activities on site not endemic to any specific area.

3.7.2.4 A recapitulation of exposure data. This shall include total number of man-hours worked on site, total motor vehicle mileage, total number of flying hours, and number of flights.

3.7.2.5 QC documentation

3.7.2.6 All DRMO turn-in documentation

3.7.2.7 A minimum of 20 4" x 6" (10 x 15 cm) color photographs shall be included in the report depicting major action items and UXO discoveries. The original, Final Report furnished to CEHD shall include original photographic print. Photographs contained in draft submissions and copies of final submissions shall be color reproductions.

3.7.2.8 Public meeting written record.

3.7.2.9 A financial breakdown by area and task of all costs and labor hours used to perform this SOW.

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3.7.2.10 Video Tapes. The contractor will provide two copies of video tapes, one each for CEHND-PM-OT and Tooele Army Depot.

3.7.2.11 The contractor will provide a planimetric map (at a scale no smaller than 1 inch = 200 feet (1:2400). Upon this map the contractor shall show location of search patterns and significant findings with respect to all surface features within the project area.

3.8 PERSONNEL QUALIFICATIONS AND JOB DESCRIPTIONS. The contractor shall furnish a staff that is qualified through education, training, and pertinent experience that shall accomplish the objective and tasks of this BOW. See Section C, subsection 3.2.4.2. of the basic contract.

4.0 SUBMITTALS. The contractor shall furnish copies of the plans, maps, and reports as identified in paragraph 4.1 to each addressee listed below in the quantities indicated. The contractor shall use express mail services for delivering these plans and reports. Following each submission, comments generated as a result of the review shall be incorporated.

## ADDRESSEE

## COPIES

US ARMY ENGINEER DIVISION, HUNTSVILLE  
ATTN: CEHND-PM-OT (MR. RAY LEONE)  
106 WYNN DRIVE  
HUNTSVILLE, AL 35805-1957

5

US ARMY CORPS OF ENGINEERS  
SACRAMENTO DISTRICT  
ATTN: CESPK-MD-MM  
1325 "J" STREET  
SACRAMENTO, CA 95814-2922

1

COMMANDER  
TOOELE ARMY DEPOT  
ATTN: ENVIRONMENTAL OFFICE (MR. LARRY FISHER)  
TOOELE ARMY DEPOT, UTAH 84074-5000

4

COMMANDER  
548th ORD DET (EODCT)  
FT. LEWIS, WA 98433

2

## 4.1 SUBMITTALS AND DUE DATES:

## SUBMITTAL

## DUE DATES

Disposal Feasibility Letter

5 days (after site visit)

Draft Work Plan

10 days (after site

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visit)

Final Work Plan

5 days (after  
receiving  
CEHND cmnts)

Draft Removal Report

60 days (after com-  
pletion of  
field work)

Final Removal Report

15 days (after  
receiving  
CEHND cmnts)

4.2 Status Report and Telephone/Conversation Report are due monthly. The original of each of these reports shall be sent within 10 working days of the end of the reporting period by normal mail to:

US ARMY ENGINEER DIVISION, HUNTSVILLE  
ATTN: CEHND-PM-OT (MR. RAY LEONE)  
106 WYNN DRIVE  
HUNTSVILLE, AL 35805-1957

with a copy furnished to the same address:

ATTN: CEHND-CT-D (Anita Prince)

4.3 On the Monday following each work week, the contractor shall fax to the Huntsville Division Project Manager (PM) the production data for the previous week. This data will be presented in both tabular and graphic forms. The graphic presentation shall show total daily target productions, based on the rate of 1.1 acres/UXO clearing team/day versus actual daily productions. The tabular presentation shall show daily productions for individual UXO clearing team, the total production (based on 1.1 acres/UXO clearing team/day). In addition, the contractor shall, at the same time, fax to the Huntsville Division PM and provide a copy to the on-site safety specialist, a list showing numbers and types of DEW located during the previous week, the names of employees by work category, and the number of hours worked during the previous week.

4.4 Project Manager. The designated USAEDH Project Manager for this delivery order is Mr. Raymond Leone, Ordnance & Technical Programs Division, Directorate of Programs & Project Management; telephone (205)955-1243, fax (205)955-5788.

5.0 APPLICABLE REGULATIONS. See Section C, subsection 3.2.4.4, of the basic contract.

UXB INTERNATIONAL, INC.

5.1 The following publication also applies:

5.1.1 AR 385-40 with USACE Supplements, Accident Reporting and Records.

6.0 GOVERNMENT FURNISHED

6.1 Pertinent UXO Technical publications as required. (CEHND)

6.2 Equipment

6.2.1 Magnetometers

6.2.2 Radios

6.2.3 Demolition Materials

6.2.4 Approved Demolition Material Storage Facility

6.3 Rights of Entry

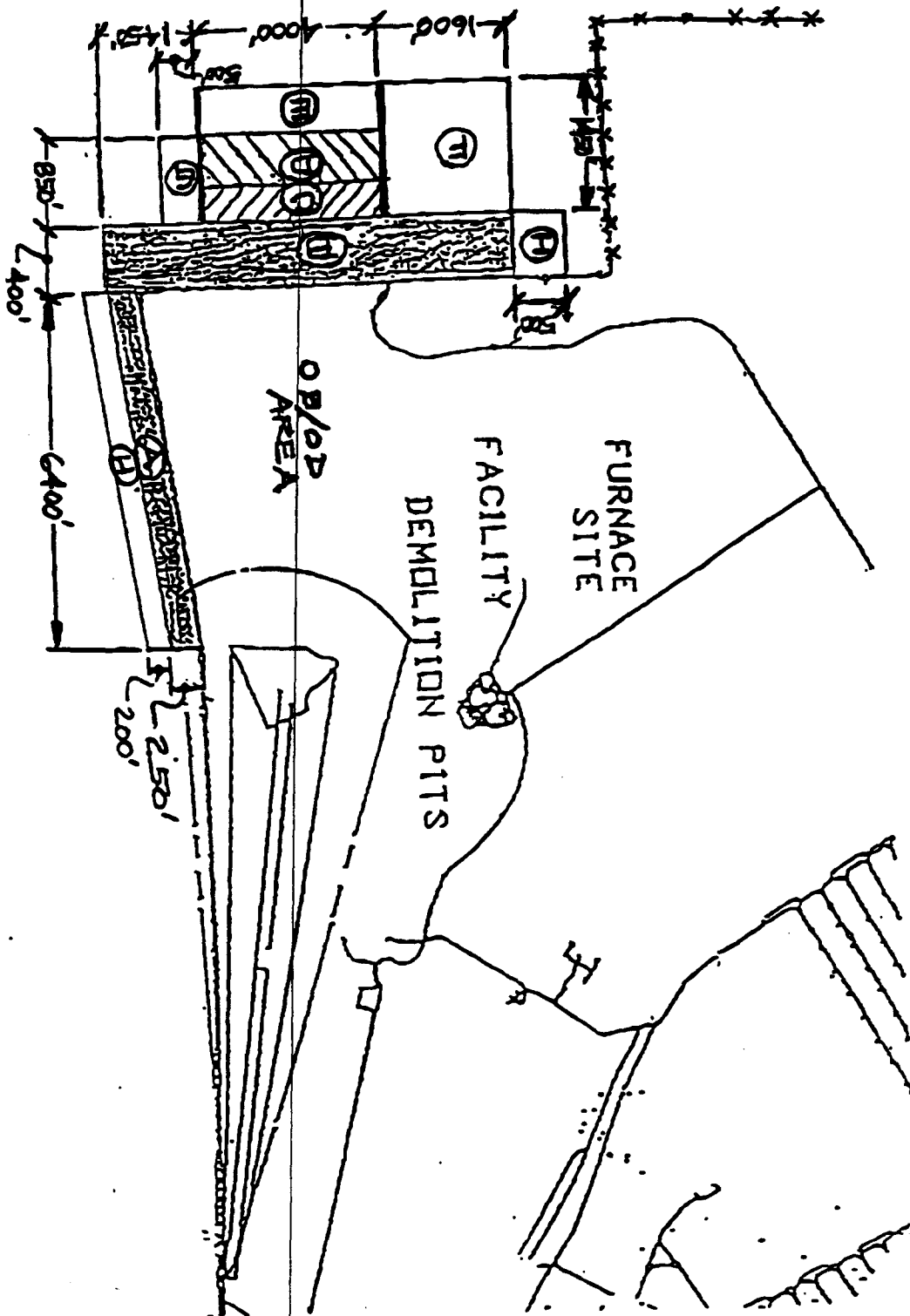
6.4 Work Plan for DEW Removal Project, Phase I, Tooele Army Depot, Utah

7.0 SPECIAL INSTRUCTIONS

7.1 29CFR 1926.100(a) requires personnel to wear protective helmets in areas where there is a possible danger of head injury from impact, from falling/flying objects, or from electrical shock and/or burns. During field activities on ordnance projects, hard hats need not be worn unless a head injury threat is present.

7.2 If a UXO is located within a grid during the final UXO QA search, the contractor will be required to, again, search the entire grid.

AREA	ACRES
F	55.1
G	53.3
H	29.8
I	29.4
J	4.6



TOOLE ARMY DEPOT-NORTH  
SW CORNER  
NTPS



Fig. 1

**ANNEX L**

**Public Meeting Record**

NOT APPLICABLE



**ANNEX N**  
**DISTRIBUTION**

	<u>Number of Copies</u>
US ARMY ENGINEER DIVISION, HUNTSVILLE ATTN: CEHND-PM-OT (MR. RON ROBERTS) 106 WYNN DRIVE HUNTSVILLE, AL 35805-1957	5
US ARMY CORPS OF ENGINEERS SACRAMENTO DISTRICT ATTN: CESP-K-MD-MM 1325 "J" STREET SACRAMENTO, CA 95814-2922	3
COMMANDER TOOELE ARMY DEPOT ATTN: SIOTE-ARE-EP (MR. RON CANALE) BLDG 113 TOOELE ARMY DEPOT, UT 84074-5033	4
COMMANDER 548TH ORD DET (EODCT) FT. LEWIS, WA 98433	2